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ECHINODERMATA

COMPILED BY

A. M. CLARK, M.A.

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5. ECHINODERMATA

CONTENTS

I.	TITLES	3
II.	SUBJECT INDEX	13
III.	SYSTEMATIC INDEX	17

I.—TITLES

In the list of titles the year has been omitted where it is the same as the volume year of the "Record", namely (1961).

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II.—SUBJECT INDEX

GENERAL LITERATURE AND HISTORY

Text-books.—Invertebrate palaeontology, **Easton.**

History.—Of Deep-sea dredging expeditions, **Madsen (1).**

Popular.—Starfishes, **Bahamonde.**

Nomenclature.—*Spatagus* O. F. Müller, 1776, suppressed, **Opinion 608**; type species:—of *Nucleocrinus*, **Fay (1)**, of *Globoblastus*, **Fay (3)**, of *Orbitremites*, **Fay (4)**, of *Tricoelocrinus*, **Fay (7)**, of *Devonoblastus*, **Fay (8)**, of *Monoschizoblastus*, **Fay (10)**, of *Pentremitella*, **Fay (12)**, of *Stephanocrinus*, **Fay (13)**, of *Pteroblastus*, **Fay (16)**, of *Schizotremites*, **Fay (17)** and of *Pentremites*, **Fay (18)**; code of nomenclature, **Stoll, Dollfus** and others.

Collections.—Of Asteroids and Echinoids of the Centro de Estudos Zoológicos, Rio de Janeiro, Brazil, **Brito**; catalogue of type and figured specimens in the Commonwealth Palaeontological Collection, Canberra, Australia, **Crespin**; Blastoids of Philadelphia Academy of Natural Sciences, **Fay (5)**; type specimens of fossils in Japan, **Hanzawa** and others.

Techniques.—Collection and study of plankton, **Anichini**; dissection of starfish, **Grégoire**; preservation of fossils, **Kaljo**; systematic serology, **Kubo**; maintenance of echinoids in aquaria, **McDaniel**; x-ray photography of fossils, **Seilacher.**

Commemoration.—Anniversary of the death of Lucas Mallada, **Bataller (1).**

STRUCTURE

Morphology.—Of blastoids, **Fay (19)**; of Scandinavian spp. of *Echinus*, **Hagström & Lønning (2)**; of Porcellanasterid starfishes, **Madsen (1).**

Microstructure.—Of ovocyte nucleolus, **Bolognari (1)**; centrioles of artificially activated eggs, **Dirksen.**

Histology.—Of longitudinal muscle of *Holothuria*, **Antunes**; "Secretory packets" of tube feet, **Chaet & Philpott**; digestive tract of *Strongylocentrotus*, **Fuji**; iridophores of *Diadema antillarum*, **Millott & Manly**; echinoid tube-feet, **Nichols.**

Skeleton.—Plates of fossil echinoids, **Devriès (2)**; of spatangid larva, **Fenaux (1)**; hydropores in Edrioasteroids, **Kesling (1)**; lantern and radioles of echinoid *Pygaster*, **Melville**; skeleton of some Mesozoic asteroids, **Müller**; fossil holothurian sclerites, **Rioult**; posterior interradius of carboniferous crinoids, **Strimple (2)**; 'stalk' of Carpoids really a kind of arm, **Ubaghs (3)**; development of skeletal pattern in echinoid larva, **Wolpert & Gustafson (1)**; the stalk in crinoids, **Yeltyschewa (1).**

Tube-feet.—Of two regular echinoids, **Nichols.**

Abnormalities.—4-rayed *Conoclypeus*, **Reguant Serra.**

PHYSIOLOGY

Digestion.—Storage of lipid in echinoid *Allocentrotus*, **Giese (2).**

Respiration.—Respiratory enzymes in *Ophiura*, **Mendes & Grinkraut**; of echinoid sperm., **Mohri & Horiuchi.**

Growth.—Of *Strongylocentrotus* spp., **Swan (2).**

Colour.—Colour effect of *Diadema antillarum*, **Millott & Manly**; echinochrome A in spines of echinoid *Stomopneustes variolaris*, **Nishibori**; colour in fossil blastoid, **Reimann**; chromatophore response in *Diadema*, **Yoshida.**

Muscular activity.—Sulfhydryl groups and neuromuscular activity, **Ewer & others**; effect of ryanodine on muscle of holothurians *Stichopus* and *Caudina* and echinoid *Strongylocentrotus*, **Haslett & Jenden**; contraction of cloaca of *Holothuria grisea*, **Lopez & Sawaya (2)**; flavins in muscle of holothurian *Parastichopus tremulus*, **Mattison**; muscular activity of *Holothuria grisea*, **Pantin & Sawaya**; glycogen in *Holothuria* longitudinal muscle, **Pereira & others**; sensitivity to acetylcholine of *Holothuria* muscles, **Sawaya (1), (2), (3)**; effect of urea on reaction of muscle fibres, **Ushakov & Krolenko.**

Tube feet.—Function of " secretory packets " of tube feet, **Chaet & Philpott.**

Cytology.—Function of nucleolus, **Bolognari (2)**; nucleolus and ergastoplasm of oocytes compared with those of tumour cells, **Bolognari (3).**

Bio-chemistry.—Biological effect of zinc in sea water, **Bougis**; concentration of radioactive isotopes in marine animals of commercial importance as food in Japan, **Ichikawa**; systematic serology, **Kubo**; enzymes of *Holothuria* longitudinal muscle, **Mendes (2)**; effect of Benzidine on gonads, **Mendes & Knapp**; protein constituents of various species, **Pajetta & Samuelli**; concentration of plasmalogen in lipids, **Rapport & Alonso**; response of amino acid oxidase system of *Arbacia* to the addition of amino acids, **Roeder**; sulfhydryl groups during cell division in sea urchin eggs, **Sakai**; uptake of amino acids, **Stephens & Schinske**; change in phosphagen content of gonads during maturation, **Yanagisawa.**

Toxicity.—Venomous echinoid *Toxopneustes*, **Endean (2)**; venomous echinothuriid, **F[ell]**; sea-urchin poisons and holothurin, **Kaiser & Michl**; a triterpenoid sapogenin obtained from acid hydrolysis of holothurin in holothurians, **Matsuno & Yamanouchi.**

Metabolism.—In oocytes, **Geuskens**; nucleotide metabolism in development, **Hirshfield** and others; effect of puromycin on protein metabolism, **Hultin (2)**; metabolism of longitudinal muscle of *Holothuria*, **Mendes (1)**; interrelations between nucleus and cytoplasm, **Urbani.**

Relation to salinity, temperature, etc.—Salinity tolerance and permeability to water of *Asterias*, **Binyon**; salinity tolerance in amphiurid *Ophiophragmus filograneus*, **Thomas**; salinity effects on fauna of oyster beds, **Wells**; constant effect on larval morphology of different sea waters, **Wilson & Armstrong**; heat sensitivity, **Zhirmunski & Pisareva.**

REPRODUCTION AND SEX

Reproductive cycles.—In *Asterina gibbosa* at Dinard, **Delavault (2)**; **Giese (1)**; relative size of gonads in echinoid *Allocentrotus fragilis* according to season, **Giese (2).**

Sexuality.—In starfish *Echinaster sepositus* at Naples, **Delavault (1).**

Seasonal reproduction.—Periodicity in larval content of White Sea plankton, **Mileikovski**; age groups of stranded starfishes, **Sieling.**

Hybridization.—Species specificity, **Hagström & Lønning (1).**

Hermaphroditism.—In *Marthasterias glacialis*, **Delavault & Cognetti**; occurrence of up to 4% of hermaphrodites in population of *Echinaster*, **Delavault (1)**; development of eggs from hermaphrodite *Arbacia*, **Fry.**

DEVELOPMENT

Gametogenesis.—Chromosomes of two echinoids during spermatogenesis, **Nishikawa.**

Embryology.—Graded mitotic activity in echinoid embryo, **Agrell**; nucleolus in ovocyte, **Bolognari (1)**; growth of *Sphaerechinus* oocytes, **Cannata** and of *Paracentrotus* oocytes, **Costanzo**; development of holothurian *Stichopus japonica* (in Chinese), **Chang & Wu (2)**; development of eggs from hermaphrodite *Arbacia*, **Fry**; forces involved during echinoid embryology, **Gustafson & Wolpert (2)**; cellular basis of morphogenesis; skeletal pattern, **Wolpert & Gustafson (1)**, blastula formation, **Id. (2).**

Spermatozoa.—Effects of homologous egg water on sperm., **Bernstein**; sperm agglutination, **Hagström & Lønning (2)**; ionic gradients in sperm., **Steinbach & Dunham.**

Fertilization including experimental studies.—Changes in cortical layer at fertilization, **Endo**; experimental cross fertilization, **Hagström & Lønning (1)** and **(2)**; interaction between sperm and S^{35}-labelled fertilizin, **Hathaway & Metz**; egg jelly dispersal by sperm extract, **Hathaway & Warren**; activation of ribosomes in response to fertilization, **Hultin (1)**; catalasic activity before and after fertilization, **Pimpinelli**; gelating factor in fertilization and cleavage, **Runnström (1)**; mechanism of protection against polyspermy, **Runnström (2)**; sperm reception and activation of egg surface, **Runnström & Kriszat**; effects of the Ox substance on fertilization and cleavage, **Seno** and others; changes following fertilization, **Simmel & Karnofsky.**

Cleavage.—Surface forces of blastomeres, **Motomura (1)**; structure of cortical granule, **Motomura (2)**; effect of prior heating on cleavage rate, **Nakamura**; cleavage, **Pfeiffer**; cleavage stimulus, **Rappaport**; effect of ultraviolet on cleavage, **Rieck & Keller**; cleavage studied by time-lapse cinematography, **Wolpert & Gustafson (2).**

Larvae.—Of holothurian *Stichopus japonica* (in Chinese), **Chang & Wu (2)**; *Echinopluteus solidus*, **Fenaux (1)**; duration of pelagic life, **Thorson**; development of echinoids in different sea waters, **Wilson & Armstrong.**

Experimental embryology.—Growth of *Arbacia* oocytes, **Albanese**; effect of and resistance to freezing in eggs, **Asahina**; gamete shedding effect of nerve extract, **Chaet & Rose**; effects of ultraviolet and x-rays on gametes, **Cheney & Speidel (1)**; more damaging effect of irradiation on zygotes than gametes, **Cheney & Speidel (2)**; oral field gradient in development, **Czihak**; artificial activation of eggs, **Dirksen**; recovery of irradiated gametes, **Failla**; effect of strontium on fertilization and development, **Goldring & Hirshfield**; morphogenesis in normal and vegetalized larvae, **Gustafson & Wolpert (1)**; effect of puromycin on protein metabolism and cell division in fertilized egg, **Hultin (2)**; effect of demecolcine on cleavage, **Kobayashi**; modifiers of the effect of lithium ions on echinoid development, **Lallier (1) & (2)**; effect of chloramphenicol on echinoid development, **Lallier (3)**; effect of 2-desoxy-D-glucose, **Lallier (4)**; action of ribonuclease on development, **Leone**; effect of cobalt, ribonucleic acid and ribonuclease on development, **Mateyko**; effects of dehydrogenases on ovary, **Moore &**

Villee; effect of high hydrostatic pressure on cell division, **Murakami**; effect of low Ca and high Mg on spicule formation in larvae, **Okazaki**; extrusion of cortical granules, **Parpart**; effect of fixing agents on the echinochrome granules, **Parpart** and others; response of plutei to amino acids, **Roeder**; effect of cobalt and glutathione in preserving fertility and life of eggs, **Rulon**; effects of sodium periodate and of trypsin on eggs, **Runnström & Krissat**; damaging effect to cytoplasm of irradiation, **Rustad**; rupture of furrows by heat, **Scott (1)**; surface changes during cytokinesis in flattened eggs, **Scott (2)**; effect of aminopterin, **Skaldo**; irradiation effects studied by time-lapse cinematography, **Speidel & Cheney**; effect of actinomycin D, **Wolsky & Wolsky**; action of anticarcinogenic agents on division, **Yamamoto** and others; effect of high pressure on mitotic apparatus, **Zimmerman & Marsland.**

Chemical embryology.—DNA synthesis, **Bucher & Maxia**; sulfhydril-groups and determination, **Fenaux (2)**; effect of metabolic inhibitors on incorporation of phenylalanine into proteins and adenine into nucleic acids, studied autoradiographically, **Geuskens**; DNA content of isolated nuclei, **Hinegardner**; incorporation of labelled amino-acids in ribosome components, **Hultin (1)**; localization of incorporated labelled amino-acids and sulphate in ovary, egg and embryo, **Immers (1)**; sulphated mucopolysaccharide in perivitelline liquid, **Immers (2)**; incorporation of labelled sulphate ions in egg and larva, **Immers (3)**; incorporation of labelled nucleic acid and protein, **Markman (1), (2) & (3)**; changes in diphosphopyridine nucleotide after fertilization and during cleavage, **Ohnishi**; estimates of RNA, acid-soluble nucleotides and nuclease activity, **Olsson**; sensitivity to lithium in echinoid embryo, **Ôtomo**; 6-aminopyrimidine deoxyribonucleoside 5¹-phosphate deaminase, **Scarano** and others; SH groups of KCl-soluble proteins and their change during cleavage, **Sakai**; Uptake of H^3TDR by the pronuclei of fertilized *Echinarachnius* embryos, **Simmel & Karnofsky**; metabolic interrelations between nucleus and cytoplasm, **Urbani.**

EVOLUTION AND GENETICS

Evolution.—Of the echinoids, **Devriès (3)**; regressive evolution in Eriocrinids, **Strimple (1)**; no evidence that *Peridionites* represents an adult dipleurula, **Tario**; echinoid evolution in the Chalk, **Wilson.**

Phylogeny.—Of Blastoids, **Fay (19).**

Variation.—Variation and hybridization of *Echinus* spp., **Hagström & Lønning (2).**

Biometrics.—Biometric methods in palaeontology, **Devriès (1)**; of species of *Clypeaster*, **Zanfrà.**

Chromosomes.—In two Japanese echinoids, **Nishikawa**; chromosome number of echinoids, **Ubisch.**

ECOLOGY AND HABITS

General works.—Ecology of Echinoderms of Banyuls area, S.W. France, **Cherbonnier (1)**; ecology of Ross Sea ophiuroids, **Fell (3).**

Palaeoecology.—Of cystoid *Lepadocystis*, **Kesling & Mintz.**

Feeding.—Of Ross Sea ophiuroids, **Fell (3)**; of *Strongylocentrotus purpuratus* and *Pisaster ochraceus*, **Giese (1)**; of *Paracentrotus* on algae, **Kitching & Ebling**; of *Ophiopholis aculeata*, **Kuznetzov & Sokolova**; of *Asterias rubens* in northern France, **Plessis**; starfish *Pisaster brevispinus* digging for clams, **Smith**; of starfish *Astropecten articulatus*, **Wells** and others.

Habits.—Of *Gorgonocephalus* in aquarium, **Bellomy**; different habits and salinity tolerance of two colour forms of *Stichopus japonicus*, **Choe & Ohshima**; starfish evoking swimming reaction in anemone *Stomphia*, **Robson**; autumnal evisceration of holothurian *Parastichopus californicus*, **Swan (1).**

Communities.—Californian shelf fauna, **Anon.**; ophiuroid communities of southern California, **Barnard & Ziesenhenne**; associated with the algae *Petroglossum nicaeense* and with *Cystoseira stricta* in the Mediterranean, **Bellan-Santini**; bottom fauna at Roscoff, **Cabioch**; bottom fauna of English Channel, **Holme**; benthic communities in Sagami Bay, Japan, **Horikoshi**; benthic fauna, Taranto, S. Italy, **Parenzan**; fauna lists of various habitats in Gulf of Mexico, **Parker** *in* **Shepard**; benthic fauna of coast of Provence, **Picard**; associated with *Asterias rubens* in northern France, **Plessis**; benthic fauna of Georges Bank, **Wigley.**

Quantitative population studies.—Of N. Pacific deep-sea bottom fauna, **Filatova & Levenstein**; biomass of benthic fauna in deep basins off California, **Hartman & Barnard**; distribution of benthic organisms in relation to sewage pollution, **McNulty**; benthic fauna on Iceland-Greenland shelf, **Ziegelmeier (2).**

Habitat.—Muddy beach, **Bassindale & R. B. Clark**; abyssal benthos, **Bruun & Wolff**; stone-coral reef in Norway, **Burdon-Jones & Tambs-Lyche**; interstitial burrowing shore fauna, **Deboutteville**; effect of removal of *Paracentrotus* on algal growth on shore, **Kitching & Ebling**; of *Ophiopholis aculeata* around the Kurile Islands, **Kuznetzov & Sokolova**; vicinity of sewage pollution, **McNulty**; rocky tidal flat, **Plessis**; animal settlement as indicator of water quality, **Reisch**; gorgonia beds near Spezia, Ligurian Sea, **Rossi**; fauna associated with undergrowth-forming algae, **Sloane, Bassindale** and others; mussel beds in Chile, **Stuardo**; salinity records for habitats of some echinoderms of Florida Bay, **Tabb & Manning**; habitat of *Ophiophragmus filograneus* in Florida, **Thomas**; lagoons of Grado and Marano, N. Adriatic, **Vatova**; oyster beds in North Carolina, U.S., **Wells.**

Distribution.—Of poisonous echinoid in Queensland, **Endean (1)** and **(2)**; of poisonous echinothuriid in northern New Zealand, **F[ell]**; bipolar ophiuroid genus, **Belyaev & Ivanov, Fell (2)**; antarctic ophiuroids, **Fell (3)**; zoogeography of the abyssal fauna, **Madsen (2)**; stratigraphic significance of columnals of crinoids, **Martel.**

Economics.—Aspects of sea-cucumber fishery in Japan, **Choe & Ohshima, Ichikawa.**

Catastrophe.—Mass mortality by stranding of *Asterias*, **Sieling.**

Enemies.—*Echinus esculentus* ingested by anemone *Tealia*, **Slinn.**

Plankton.—Pelagic life of larvae, **Thorson**; echinoid larvae of different sea waters, **Wilson & Armstrong.**

Parasites and Commensals.—Deformities caused by Schizoproboscina in fossil crinoids, **Arendt**; commensal ciliates of *Strongylocentrotus*, **Beers (1)** and **(2)**; associates of holothurians at Banyuls, **Changeux**; association of fish *Siphamia* with *Diadema* in the Nicobar Islands, **Eibl-Eibesfeldt**; sponge *Iophon radiatus* on brittle-star *Ophiurolepis gelida*, **Fell (3)**; association of crab *Harrovia* with crinoid *Lamprometra*, **Jones & Sankarankutty**; parasite of fossil echinoid, **Solovjev**; microflora associated with echinoid *Paracentrotus lividus* in Algeria, **Tysset** and others; pinnotherid crustacean commensal with holothurian *Thelothuria princeps*, **Wells & Wells.**

DISTRIBUTION

GEOGRAPHICAL

Arctic.—White Sea plankton, **Mileikovski.**

North Atlantic.—Norway, **Burdon-Jones & Tambs-Lyche**; Brittany, **Cabioch**; British Isles, **Eales**; Lundy I., Bristol Channel, **Harvey**; English Channel, **Holme**; N. France, **Plessis**; Ireland, **Sloane, Bassindale** and others; Georges Bank, off New England, **Wigley**; German Bight, **Ziegelmeier (1).**

Mediterranean and Black Sea.—S.W. France to the Balearic Is., **Cherbonnier (1)**; S. France, larva *Echinopluteus solidus*, **Fenaux (1)**; S.W. France, holothurian, **Monniot**; Provence, France, **Picard**; S. France, ophiuroids, **Reys**; Ligurian Sea, **Rossi**; Gulf of Taranto, **Tortonese**; Black Sea, **Valkanov**; Adriatic, **Vatova**; Adriatic, **Zavodnik.**

Tropical Atlantic.—Ghana, **Bassindale**; Brazil and S. Trinidad I., asteroids and echinoids, **Bernasconi (1)**; Brazil, asteroids and echinoids, **Brito**; Mexico, asteroid, **Caso**; Barbados, echinoids, **Lewis**; Brazil, holothurians, **Lopez & Sawaya (1)**; and **Lopez**; Biscayne Bay, Florida, **McNulty**; deep-water Porcellanasterids, **Madsen (1)**; Gulf of Mexico, **Parker** *in* **Shepard**; Florida, **Tabb & Manning**; *Ophiophragmus filograneus* in Florida, **Thomas.**

South Atlantic and South Africa.—Argentina, asteroid, **Bernasconi (2)**; Brazil, asteroids and echinoids, **Brito**; South Africa, asteroids, **Hayashi**; deep-water Porcellanasterids, **Madsen (1).**

Indo-W. Pacific.—Abyssal starfish *Dytaster spinosus*, **Bruun & Wolff**; South China Sea, echinoids, **Chang & Wu**; Viet-Nam, holothurians, **Cherbonnier (2)**; Queensland, Australia, **Endean (1), (2)**; New Zealand, poisonous echinoid, **[Fell]**; Japan, **Horikoshi**; Japan, asteroids compared by systematic serology, **Kubo**; deep-water Porcellanasterids (Asteroidea), **Madsen (1)**; Japan, holothurians, **Oguro (1), (2)**; New Zealand, holothurian, **Panning**; Madagascar, echinoid, **Paulian**; New Zealand, holothurians, **Pawson.**

East Pacific.—California, **Anon.**; Chile, asteroids, **Bahamonde**; California, ophiuroids, **Barnard & Ziesenhenne**; Chile, asteroid, **Bernasconi (3)**; Mexico, asteroid *Tethyaster*, **Caso**; recent Somasteroid, **Fell** *in* **Anon.**; California, **Hartman & Barnard**; Chile, **Stuardo.**

North Pacific.—Ophiuroids of U.S.S.R. waters, **Djakonov (1)**; N.W. Pacific, *Henricia*, **Djakonov (2)**; quantitative study of deep-sea bottom fauna, **Filatova & Levenstein**; Kurile Islands, *Ophiopholis*, **Kuznetzov & Sokolova.**

Southern Ocean.—Ross Sea ophiuroids, **Fell (1)** and **(3)**; asteroid sp., **Hayashi**; Islands to the S. and E. of New Zealand, **Pawson.**

GEOLOGICAL

Quaternary.—Southern Italy, **Nicotera**; Gulf of Mexico, **Parker** *in* **Shepard.**

Pleistocene.—U.S. and Mexican Pacific coasts, *Mellita*, **Durham (2)**; California, U.S., **Glen.**

Pliocene.—Greece, *Anapliotis*; Morocco, echinoids, **Colo & Petitot**; Trinidad and Venezuela, echinoids, **Cooke**; Lesser Antilles, clypeastrids, **Engel**; California, U.S., **Glen**; Japan, echinoid, **Hashimoto & Shibata**; southern Italy, **Nicotera.**

Miocene.—Sardinia, **Comaschi Caria**; Trinidad anp Venezuela, echinoids, **Cooke**; Ceylon, **Deraniyagala**; Costa Rica, echinoids, **Durham (1)**; Mozambique, echinoids, **Gonçalves**; Yugoslavia, echinoids, **Kochansky**; southern Italy, **Nicotera**; France, echinoids, **Roman (2)**; Turkey, echinoids, **Roman (3)**; India, **Sahni & Sastry**; Austria, echinoid, **Schaffer (2)**; Egypt, **Said & Yallouse**; Austria, crinoids, **Sieverts-Doreck (1).**

Oligocene.—Trinidad and Venezuela, echinoids, **Cooke.**

Eocene.—Israel, asteroid, **Avnimelech (2)**; Spain, **Bataller (3), (4), (5)**; Trinidad and Venezuela, echinoids, **Cooke**; Algeria, echinoids, **Devriès (2)**; Morocco, echinoid, **Roman (1)**; Turkey, echinoids, **Roman (4)**; Austria—N. Italy, **Schaffer (1).**

Paleocene.—Trinidad, echinoid, **Cooke**; Crimea, Caucasus and eastwards in U.S.S.R., **Moskvin & Naidin**; **Poslavskaia & Moskvin.**

Cretaceous.—Azerbaidjan, U.S.S.R., **Aliev**; Israel, **Avnimelech (1)**; Israel echinoid **Avnimelech (3)**; (Danian) Spain, echinoids, **Bataller (5)**; Spain, **Bataller (6)**; Britain, **Casey**; N. France, **Cayeux (1)** and **(2)**, **Cayeux & Villoutreys**; Trinidad and Venezuela, echinoids, **Cooke**; Algeria, echinoids, **Devriès (3)**; Caucasus and Crimea, U.S.S.R., echinoids, **Drushchits & Kudryavtseva**; Algeria, **Emberger**; Kent, England, ophiuroids, **Hess (1)**; Georgia, U.S.S.R., **Kacharava & Kacharava**; Serbia, Yugoslavia, **Luković**; Crimea, U.S.S.R., echinoids, **Maslakova**; Roumania, echinoid, **Maxim**; Caucasus and Crimea, southern U.S.S.R., **Moskvin**; Crimea, Caucasus and eastwards, in U.S.S.R., **Moskvin & Naidin**; Germany, **Müller**; Norfolk, England, **Peake & Hancock**; N. Mexico and Texas, **Perkins**; crinoids, **Rasmussen**; Afghanistan, **Rossi Ronchetti**; Tripolitania, **Rossi Ronchetti & Albanesi**; Brazil, echinoids, **Santos & de Souza Cunha**; Italy, **Selli**; Hungary, crinoids, **Sieverts-Doreck (3)**; E. Serbia, **Sučić-Protić**; Japan, echinoid, **Tanaka & Shibata**; echinoids, **Wilson.**

Jurassic.—Poland, **Barczyk**; Spain, **Bataller (2)**; Morocco, echinoids, **Colo & Petitot**; Algeria, **Devriès (3)**; Algeria, **Emberger**; Umbria and Sicily, **Farinacci & Sirna**; Switzerland (and England), ophiuroids, **Hess (2)**; Bavaria, Germany, **Kuhn**; France, ophiuroids, **Laugier**; echinoid *Pygaster*, **Melville**; Yugoslavia, **Mihajlović**; Israel, echinoid, **Parnes**; Jugoslavia, **Poljak**; Italy, **Selli**; E. Serbia, **Sučić-Protić**; China, **Sun, Chan & Shao**; U.S.S.R., **Yakovlev & Pcelincev** *in* **Krimholz.**

Triassic.—Spain, **Bataller (2)**; Algeria, **Emberger**; Balkans, **Entscheva**; Italy, asteroids, **Redini**; Austria, crinoids, **Sieverts-Doreck (2)**; Spain, **Virgili & Julivert**; U.S.S.R., crinoids, **Yakovlev** *in* **Kiparisova**; China, ophiuroid, **Yang.**

Permian.—**Branson (1)**; Spain, **Comte**; Timor, blastoids, **Fay (6), (16)**; blastoids, **Fay (19).**

Carboniferous.—New Mexico, U.S., **Armstrong**; Iowa and Missouri, U.S., blastoids, **Beaver (1)** and **(2)**; N.S.W., Australia, blastoid, **Campbell**; Spain, **Comte**; Missouri, U.S., blastoid, **Fay (3)**; England, blastoid, **Fay (4)**; Japan, blastoid, **Fay (9)**; Germany, blastoid, **Fay (11)**; Oklahoma, U.S., blastoid, **Fay (15)**; blastoids, **Fay (19)**; Oklahoma, U.S., crinoid, **Frederickson & Waddell**; Spain, **Hernández-Sampelayo**; correlation of Glen Dean crinoids with contemporaneous British ones, **Horowitz & Perry (1)** and **(2)**; edrioasteroids, **Kesling (1)**; Yugoslavia, crinoid, **Kostić-Podgorska**; S. Germany, **Sittig**; Oklahoma, U.S., crinoids, **Strimple (2), (3), (4), (6), (7), (8), (9), (10)**; Germany, **Voigt**; Crinoidea, **Wright** and **Ramsbottom** *in* **Wright**; southern U.S.S.R., crinoids, **Yakovlev.**

Devonian.—Urals, U.S.S.R., Crinoids identified by Yeltyshewa, **Chernov**; Spain, **Comte**; Germany, blastoid, **Fay (12)**; New York state, blastoid, **Fay (17)**; blastoids, **Fay (19)**; edrioasteroids, **Kesling (1)**; U.S.S.R., **Khokhlov & Osipov**; cystoids, **Meléndez (1)**; China, blastoid, **Mu**

(2); Germany, **Ochs & Wolfart**; Victoria, Australia, **Philip**; Ontario, Canada, blastoid, **Reimann**; Germany, holothurian, **Seilacher** (1) and (2); Michigan, U.S., **Stumm**; France, **Ubaghs** *in* **Erben** and others; Germany, **Volk**.

Silurian.—E. Pyrenees, France, **Cavet**; Spain, **Comte**; New York state, U.S., echinoid, **Fay** (1); Tennessee, U.S., crinoids, **Fay** (2); New York state, blastoid, **Fay** (13); blastoids, **Fay** (19); Central Pamirs, U.S.S.R., **Karapetov**; edrioasteroids, **Kesling** (1); cystoids, **Kesling** (2); Spain, cystoids, **Meléndez** (1) and (2); China, crinoid, **Mu** (1); Oklahoma, U.S., blastoid, **Reimann & Fay**; Oklahoma, U.S. crinoid, **Strimple & Watkins**; Siberia, crinoids, **Yeltyschewa** (2).

Ordovician.—New York state, U.S. and Quebec, Canada, blastoids, **Fay** (14); edrioasteroids, **Kesling** (1); Michigan, U.S., cystoid, **Kesling** (3); Indiana and Ohio, U.S., cystoid, **Kesling & Mintz**; cystoids, **Meléndez** (1); Britain, crinoids, **Ramsbottom**; Oklahoma, U.S., carpoid, **Strimple** (5); eocrinoid *Lingulocystis*, **Ubaghs** (1); Carpoid, **Ubaghs** (2); Siberia, crinoids, **Yeltyschewa** (2).

Cambrian.—Spain, **Comte**; cystoids, **Meléndez** (1).

Lower Palaeozoic.—County Down, N. Ireland, crinoid ossicles, **Griffith**.

? Period.—Talc-chloritic rocks of southern Urals, U.S.S.R., **Postoev & Bezrukov**.

III.—SYSTEMATIC INDEX

HOLOTHURIOIDEA

Aphelodactyla australis, **Cherbonnier** (2) fig. 6e–p (no text in this part).

†Arthrochirota order nov. of super-order Apoda for genus *Palaeocucumaria*, **Seilacher** (1) p. 71.

Cucumaria saxicola, **Cherbonnier** (1) p. 58; *C. chronkjelmi*, *japonica*, **Oguro** (2) p. 2.

Galatheathuria aspera, **Wolff** p. 283 (possible identity of 'flat-fish' on the bottom of the Mariana Trench, 10912 m.).

Havelockia inermis, **Cherbonnier** (1) p. 62.

Holothuria forskäli, *polii*, *stellati* and *tubulosa*, parasites and commensals, **Changeux** pp. 14–113; *H. forskali* pp. 56–57, *helleri* p. 57, *impatiens* p. 54, *polii* p. 55, *sanctori* p. 54, *stellati* p. 56, *tubulosa* p. 55, **Cherbonnier** (1).

Leptopentacta punctabipedia **sp. nov.**, South Viet-Nam, **Cherbonnier** (2) pp. 425–428 fig. 1a–t fig. 2a–b.

? *Leptosynapta inhaerens* (decalcified), **Cherbonnier** (1) p. 64; *L. inhaerens*, **Monniot** pp. 377–378, **Oguro** (1) pp. 193–194 figs. 1–3.

Ludwigia petiti p. 61, *planci* pp. 60–61, **Cherbonnier** (1).

Neocucumis marioni, **Cherbonnier** (1) p. 63.

Oerstergrenia digitata, **Cherbonnier** (1) p. 64.

Palaeocucumaria hunsrueckiana, **Seilacher** (1) pp. 66–71 pls. x, xi.

Paracucumaria hyndmanni, **Cherbonnier** (1) pp. 58–59.

Parastichopus californicus, **Swan** (1) pp. 1078–1079.

Pentathyone(?) *novacorona* **sp. nov.**, South Viet-Nam, **Cherbonnier** (2) pp. 429–430 fig. 2c–h fig. 3 fig. 4a.

Phyllophorus urna, **Cherbonnier** (1) p. 63; *P.* (*Phyllophorus*) *dubius* **sp. nov.** South Viet-Nam, pp. 434–435 fig. 5c–k fig. 6a–d, *P.* (*Phyllophorella*) *cebuense* pp. 431–433 fig. 4b–i fig. 5a–b (*P. kokkutiensis* Heding & Panning probably conspecific with this), **Cherbonnier** (2).

Pseudocnus kollikeri, **Cherbonnier** (1) p. 59.

Pseudothyone raphanus pp. 61–62, *sculponea* p. 62, **Cherbonnier** (1).

Psolidiella nigra, **Panning** pp. 192–194 figs. 1–6.

Scoliodotella **gen. nov.** family Synaptidae, for type *S. uchidai* **sp. nov.** Japan, **Oguro** (2) pp. 2–4 figs. 1–7.

Stereoderma kirschbergi, **Cherbonnier** (1) p. 59.

Stichopus japonica, **Chang & Wu** (2) pp. 65–72 (in chinese) figs. 1, 2 pls. i, ii; *S. regalis*, **Cherbonnier** (1) pp. 57–58; *Stichopus japonicus*, **Choe & Ohshima** pp. 97–105 (english and japanese) figs. 1–7, existence of two distinct forms; *S. japonicus*, **Oguro** (2) p. 1.

Thyone Naideae **sp. nov.** Brazil, **Lopez & Sawaya** (1) p. 166 (in Portuguese); *T. fusus*, **Cherbonnier** (1) pp. 62–63.

Trachythyone elongata, *tergestina* p. 60, **Cherbonnier** (1).

ECHINOIDEA

†*Acrolusia gauthieri*, **Devriès** (3) pl. xxxv fig. 12.

†*Agassizia scrobiculata*, **Cooke** pp. 23–24 pl. v figs. 4–7.

†*Amphiope bioculata*, **Gonçalves** p. 740 pl. ii figs. 5, 6.

†*Anorthopygus orbicularis*, **Avnimelech** (3) pp. 15–16 fig. 1.

Anthocidaris crassispina, **Chang & Wu** (1) pp. 35–37 (in chinese) fig. 30 pl. xv figs. 1–3.

†*Antillaster lamberti*, **Cooke** p. 24 pl. xi figs. 1, 2.

†*Aphelaster* pp. 69–70 with *A. serotinus* **sp. nov.** Cretaceous Japan, pp. 70–72 figs. 1, 2 pl. x figs. 1–6, **Tanaka & Shibata**; *A. integer*, **Devriès** (3) pl. ii figs. 6–10.

Arachnoides placenta, **Chang & Wu** (1) pp. 46–48 (in chinese) fig. 39 pl. xix figs. 1–5.

Araeosoma owstoni **var.** *nudum*, **Chang & Wu** (1) pp. 10–11 (in chinese) fig. 7 pl. ii figs. 1, 2; *A. thetidis*, **P[ell]** p. 84.

Arbacia lixula, **Cherbonnier** (1) p. 41.

†*Archiacia saadensis*, **Devriès** (3) pl. xxvii.

Asthenosoma ijimai, **Chang & Wu** (1) pp. 8–9 (in chinese) fig. 6 pl. i figs. 7, 8.

Astriclypeus manni, **Chang & Wu** (1) pp. 55–56 (in chinese) pl. xxii figs. 1, 2.

Astropyga radiata, **Chang & Wu** (1) pp. 12–14 (in chinese) figs. 8, 9 pl. iii figs. 1, 2.

†*Basseaster rostratus*, **Moskvin** p. 272 pl. xvii fig. 6; *B.* p. 54 with *B. rostratus* pp. 54–55 fig. 3 pl. i fig. 5a–c, **Poslavskaia & Moskvin**.

†*Bothriocidaris*, **Devriès** (3) pl. xxxiii fig. 17.

Breynia elegans, **Paulian** pp. 193–194 (extension of range).

†*Breynia carinata*, **Sahni & Sastry** p. 221 pl. xli fig. 8.

†*Brissopneustes* p. 72 with *B. schwetzovi* **sp. nov.** Paleocene U.S.S.R. pp. 73–74, 81 fig. 24 pl. vi figs. 2a–d, 3, *B. aturicus* pp. 72–73 fig. 23 pl. vi fig. 1a–d, **Poslavskaia & Moskvin**.

Brissopsis lyrifera, **Cherbonnier** (1) p. 52, **Devriès** (3) pl. xxii fig. 5.

†*Brissopsis antillarum*, **Cooke** pp. 27–28 pl. xii figs. 1–4; *Brissopsis* n. sp. (not named), Miocene Costa Rica, **Durham** (1) p. 484 text-figs. 1D, 2B pl. lxvii figs. 4, 7 pl. lxviii fig. 5.

Brissus brissus, **Cherbonnier** (1) p. 53.

†*Brissus* (*Allobrissus*) *miocaenicus* **sp. nov.** Miocene Austria, **Schaffer** (2) pp. 149–155 text-fig. 1, pls. i, ii; *B. unicolor*, **Cooke** p. 27 pl. vii figs. 1–4, *B. exiguus* Cotteau, 1875 a synonym; *B. unicolor*, **Devriès** (3) pl. vi figs. 1–3 pl. xxii figs. 3, 7, pl. xxxviii fig. 1, pl. xxxix fig. 3.

†*Cardiaster* sp., **Devriès** (3) pl. vii fig. 11; *C. granulosus* p. 255 fig. 54 pl. v figs. 3, 4, *peroni* pp. 254–255 fig. 53 pl. v fig. 2, **Moskvin.**

†*Cardiopelta capistrata*, **Devriès** (3) pl. viii fig. 7.

†*Cassidulus* (*Cassidulus*) *falconensis*, **Cooke** p. 21 pl. xiv figs. 5–8.

Chaetodiadema japonicum, **Chang & Wu** (1) pp. 14–15 (in chinese) figs. 10, 11 pl. iv figs. 1, 2.

Cidaris cidaris, **Cherbonnier** (1) pp. 40–41.

†*Cidaris wissmanni*, **Virgili & Jullvert** pp. 221–222 fig. 4.

Clypeaster (*Rhaphiodoclypus* [sic]) *reticulatus* pp. 43–45 (in chinese) figs. 35, 36 pl. xviii figs. 1–7, *C.* (*Stolonoclypus*) *irrescens* pp. 45–46 figs. 37, 38 pl. xviii fig. 8, **Chang & Wu** (1).

†*Clypeaster annandalei caviventer* **subsp. nov.** Miocene Ceylon p. 154 pl. v figs. 5, 6, *C.* sp. p. 154 pl. v fig. 11, **Deraniyagala**; *C. Malladai*, **Bataller** (1) pp. 96–97 pl. xxxvii fig. 2; *C. rosaceus*, **Cooke** pp. 16–17 pl. v fig. 3; *C.* sp. indet. Miocene Costa Rica, **Durham** (1) p. 481 pl. lxviii fig. 4; *C. rosaceus* p. 2, *subdepressus* ? pp. 2–3, **Engel**; *C. scillae*, *C.* aff. *crassicostatus*, *C.* sp. p. 210, **Kochansky**; *C. cerullii* fig. 39.2, *franchii* fig. 32.6, *insignis* fig. 32.5, *portentosus* fig. 32.1, *reidii* fig. 32.4, *tyrrenicus* fig. 32.3, **Nicotera**; *C.* (*Bunactis*) pp. 65–66, *C. alticostatus* pp. 77–78 pl. vii fig. 1, *altus* pp. 73–75 pl. iii fig. 1, *C.* aff. *altus* p. 77, *angulatus* var. *oblongus* pp. 87–88, *angustatus* p. 86 pl. viii fig. 1, *campanulatus* pp. 78–79 pl. iii fig. 3 pl. iv fig. 1, *C.* sp. of *campanulatus* group p. 84, *crassicostatus* p. 73 pl. ii fig. 2, *crassus* pp. 71–72 pl. ii fig. 1, *C.* aff. *crassus* p. 72, *C.* cf. *crassus* pp. 72–73, *delgadoi* p. 82, *doma* pp. 82–83 pl. vii fig. 2, *gauthieri* pp. 75–76, *lamberti* pp. 80–81 pl. iv fig. 2, *lamberti* var. *extensus* p. 81, *manini* p. 76, *modenai* pp. 85–86 pl. vi fig. 1, *C.* aff. *olisiponensis* p. 87 pl. viii fig. 2, *partschi* pp. 84–85 pl. v fig. 2, *pentadactylus* pp. 66–67, *pomai* pp. 69–70, *scillae* pp. 67–69 pl. i fig. 1, *C.* cf. *scillae* p. 69, *C.* sp. of *scillae* group p. 71, *tauricus* p. 78 pl. iii fig. 2, *torquati* pp. 81–82 pl. v fig. 1, *C.* sp. nov.(?) of *ventiensis* group pp. 88–89 pl. vi fig. 2, *C.* aff. *zanoni* pp. 70–71 pl. i fig. 2, *zumoffeni* pp. 79–80 pl. iii fig. 4, **Roman** (3); *C. fakhryi*, **Said & Yallouze** p. 76 pl. v fig. 1; *C.* (*Coronanthus*) *cavipetala*, **Schaffer** (1) pp. 426–430 figs. b, c.

†*Clypeus mulleri*, **Devriès** (3) pl. xxvi figs. 1, 2.

†*Codiopsis doma*, **Devriès** (2) p. 112 fig. 3 pl. i fig. 5.

†*Collyrites elliptica* pl. viii fig. 6, *pseudoringens* pl. xxxiii fig. 21, *ringens* pl. vii fig. 13, **Devriès** (3).

†*Collyropsis carinata*, **Devriès** (3) pl. v fig. 20 pl. viii fig. 10; *C. jaccardi* p. 392 pl. i figs. 4a–d, *ovulum* pp. 392–393 pl. i figs. 5a–d, 6a–v, **Drushchits & Kudryavtseva.**

†*Conoclypeus conoideus*, **Reguant Serra** pp. 313–315 figs. 1–3 pl. li (lacking frontal ambularum).

†*Conulus* p. 250 with *C. matesovi* **sp. nov.** Cretaceous Caucasus, U.S.S.R. p. 251 pl. iii fig. 2, *albogalerus* p. 251 pl. ii fig. 5, pl. iii fig. 1, *magnificus* p. 251 pl. iii fig. 3, *subconicus* pp. 250–251 pl. ii fig. 4, *subrotundus* p. 250 pl. ii fig. 3, **Moskvin**; *C.* cf. *subrotundus*, **Maxim** pp. 1117–1125 pl. i figs. 3–6; *C. castaneus*, **Villoutreys** *in* **Cayeux & Villoutreys** p. 8 figs. 5, 11.

†*Coptosoma* p. 133 with *C. mahdid* p. 113 pl. xix fig. 10, pl. xxxvi figs. 4, 5, *solitarium* p. 113, **Devriès** (3).

†*Coraster ansaltensis* Cretaceous Dagestan and Turkmenistan, U.S.S.R. p. 279 fig. 91 pl. xviii fig. 7, *caucasicus* pp. 276–277 fig. 87 pl. xviii fig. 3, *cubanicus* p. 277 fig. 88 pl. xviii fig. 4 Cretaceous Caucasus, U.S.S.R., **spp. nov.**, *C. sphaericus* pp. 278–279 fig. 90 pl. xviii fig. 6, *vilanovae* p. 278 fig. 89 pl. xviii fig. 5, **Moskvin**; *C.* p. 64 with *C. ansaltensis* p. 66 fig. 17 pl. iv fig. 3a–c, *sphaericus* pp. 65–66 fig. 16 pl. iv fig. 2a–c, *vilanovae* p. 65 fig. 15 pl. iv fig. 1a–c, **Poslavskaia & Moskvin.**

†*Corthya ambigua*, **Drushchits & Kudryavtseva** p. 393 pl. i figs. 7a–g.

†*Cottaldia* sp. cf. *C. routula*, **Perkins** p. 91 pl. xxxiv figs. 8, 9.

†*Cyclaster danicus* pp. 291–292 fig. 108 pl. xxvi fig. 6, *gindrei* p. 292 fig. 109 pl. xxvi fig. 7, *integer* p. 291 fig. 107 pl. xxvi figs. 4, 5, **Moskvin**; *Cyclaster* p. 69 with *C. danicus* pp. 70–71 fig. 21 pl. v fig. 6a–c, *gindrei* pp. 71–72 fig. 22 pl. v fig. 7a–c, *integer* pp. 69–70 fig. 20 pl. v figs. 4a–c, 5a, b, **Poslavskaia & Moskvin.**

Diadema savignyi pp. 18–19 (in chinese) fig. 14 pl. vi figs. 1, 2, *setosum* pp. 16–17 figs. 12, 13 pl. iii figs. 3–5, pl. v figs. 1–4, **Chang & Wu** (1).

†*Disaster ganulosus* (sic), **Devriès** (3) pl. xv figs. 1–3 pl. xxx fig. 1.

†*Discoidea karakaschi*, **Drushchits & Kudryavtseva** p. 391 pl. i figs. 1a, b, 2, 3a, b; *D. cylindrica*, **Moskvin** p. 250 pl. ii figs. 1, 2.

†*Douvillaster vatonnei*, **Devriès** (3) pl. xxii fig. 8.

†*Echinobrissus siltifensis*, pl. xxvi fig. 3, *E.* sp. pl. xxx fig. 6, **Devriès** (3).

Echinocardium cordatum p. 52, *flavescens*, *mediterraneum* and *mortenseni* p. 51, **Cherbonnier** (1); *E. cordatum*, **Devriès** (3) pl. xxii fig. 2, pl. xxxix figs. 1, 2.

†*Echinoconus* p. 251 with *E. orbicularis* p. 252 pl. iii fig. 5, *vulgaris* p. 252 pl. iii fig. 4, **Moskvin.**

†*Echinocorys renngarteni* **sp. nov.** Cretaceous Caucasus, U.S.S.R., pp. 260–261 fig. 65 pl. x fig. 2, *ciplyensis* p. 259 fig. 62 pl. ix fig. 2, *edkemi* p. 260 fig. 64 pl. x fig. 3, pl. xi fig. 1, *gibbus* p. 256 fig. 56 pl. vi fig. 1, *gravesi* pp. 256–257 fig. 57 pl. vi fig. 2, *marginatus* p. 258 fig. 60 pl. viii fig. 1, *obliquus* p. 262 fig. 68 pl. xi figs. 3, 4, *perconicus* p. 260 fig. 63 pl. ix fig. 3, pl. x fig. 1, *pyramidatus* p. 259 fig. 61 pl. viii fig. 2, pl. ix fig. 1, *pyrenaicus* p. 262 fig. 67 pl. xi fig. 2, *sphaericus* pp. 255–256 fig. 55 pl. v fig. 5, *sulcatus* p. 261 fig. 66 pl. xi fig. 5, *turritus* p. 257 fig. 59 pl. vii fig. 1, *vulgaris* p. 257 fig. 58 pl. vi fig. 3, **Moskvin**; *E. ovatus* pl. xxxviii fig. 4, *vulgaris* pl. xxxviii figs. 2, 3, **Devriès** (3); *E. dioscuriae*, **Poslavskaia & Moskvin** pp. 53–54 fig. 2 pl. i figs. 1–4; *E. scutata*, **Wilson** pp. 29–31 fig.

Echinocyamus pusillus, **Cherbonnier** (1) pp. 46–47.

Echinodiscus auritus, **Chang & Wu** (1) pp. 54–55 (in chinese) fig. 42 pl. xxi figs. 1, 2.

†*Echinolampas woodringi* **sp. nov.** Miocene Costa Rica, **Durham** (1) p. 481 text-figs. 1A, 2A pl. lxviii figs. 2, 3, 7; *Echinolampas lycopersicus*, **Cooke** pp. 21–22 pl. ix figs. 3–5; *E. flavescens* pl. xxviii fig. 2, *E.* sp. pl. xxii fig. 9, **Devriès** (3); *E. ovata*, **Gonçalves** pp. 740–741 pl. iii figs. 1–5; *E. affinis*, *silensis*, *E.* sp. p. 209, **Kochansky**; *Echinolampas* ? (nov. sp.) Eocene Morocco, **Roman** (1) pp. 234–237 pl. xviii figs. 6–9; *Echinolampas* pp. 253–255,

with *E. dumasi* pp. 255–257, *hayesianus* pp. 257–259, *hemisphericus*, *scutiformis* p. 259, **Roman (2)**; *E. amplus* pp. 77–78 pl. v fig. 2, *haemisphaericus* p. 77 pl. v fig. 5, **Said & Yallouze.**

Echinometra mathaei pp. 37–39 (in chinese) pl. xvi figs. 1–3, *mathaei oblonga* pp. 39–40 figs. 31, 32 pl. xv figs. 8–10, pl. xvi figs. 4–6, **Chang & Wu (1).**

Echinopluteus solidus, **Fenaux (1)** pp. 209–221 figs. 1–9.

Echinothrix calamaris pp. 19–20 (in chinese) figs. 15, 16 pl. vii figs. 1–4, pl. ix figs. 1, 2, pl. x figs. 1–3, *diadema* pp. 21–22 fig. 17 pl. viii figs. 1, 2, pl. xi figs. 1, 2, pl. xii fig. 3, **Chang & Wu (1).**

Echinus acutus pp. 43–44, *melo* p. 43, **Cherbonnier (1)**; *E. miliaris*, **Devriès (3)** pl. vi fig. 8; *E. acutus* and *esculentus*, **Hagström & Lønning (2)** pp. 23–26.

†*Enallaster* (*Washitaster*) *bravoensis*, **Cooke** pp. 7–8 pl. i figs. 1–4; *E. peroni* pl. xxxiv fig. 1, *tissoti* pl. xxxiv fig. 3, **Devriès (3)**; *E.* (*Washitaster*) *bravoensis* ?, **Perkins** p. 93 pl. xxxiii figs. 1–3, pl. xxxiv figs. 7, 12.

Encope emarginata, **Bernasconi (1)** pp. 26, 30.

†*Encope* (*Melitella*) *falconensis* Miocene and Pliocene Venezuela pp. 19–20 pl. viii figs. 2–4, *E. secoensis* Pliocene Venezuela pp. 18–19 pl. viii fig. 1, pl. ix figs. 1, 2, **spp. nov.**, *E. kugleri* p. 18 pl. x fig. 1, *michelini* pp. 17–18 pl. vi figs. 5, 6, pl. vii fig. 5, **Cooke.**

†*Epiaster whitei*, **Cooke** pp. 9–10 pl. ii figs. 6–9; *E. polygonus* pl. vii fig. 16, *restrictus* pl. xvi fig. 6, **Devriès (3)**; *E.* cf. *henrici*, **Rossi Ronchetti** pp. 357–358 pl. xxviii figs. 3–6; *E. crassissimus* pp. 10–11, *distinctus* p. 11, **Villoutreys *in* Cayeux & Villoutreys.**

Eucidaris tribuloides, **Bernasconi (1)** pp. 25–26.

†*Eupatagus clevei*, **Cooke** pp. 26–27 pl. x figs. 2–5, *E. grandiflorus* (Cotteau), 1875 a synonym.

Faorina chinensis, **Chang & Wu (1)** pp. 63–65 (in chinese) figs. 48–50 pl. xxiv figs. 3, 4, pl. xxv figs. 1, 2.

†*Fibularia farallonensis* **sp. nov.** Eocene Trinidad, **Cooke** p. 16 pl. iv figs. 1–6.

†*Galeaster* p. 57 with *G. dagestanensis* **sp. nov.** Paleocene south U.S.S.R., pp. 59–60, fig. 9 pl. ii fig. 6a–e, *G. carinatus* pp. 58–59 fig. 8 pl. ii fig. 5a–e, *minor* p. 58 fig. 7 pl. ii figs. 3a–e, 4a–b, *sumbaricus* p. 57 fig. 6 pl. ii figs. 1a–e, 2, **Poslavskaia & Moskvin**; *Galeaster* p. 272 with *G. minor* pp. 273–274 fig. 83 pl. xvii figs. 9, 10, *sumbaricus* p. 273 fig. 82 pl. xvii figs. 7, 8, **Moskvin.**

†*Galeola papillosa* p. 264 pl. xv fig. 4, *senonensis* p. 264 fig. 71 pl. xv fig. 3, **Moskvin.**

†*Galerites vulgaris*, **Devriès (3)** pl. xxxiv fig. 5.

†*Galeropygus agariciformis*, **Devriès (3)** pl. xxxiii figs. 13–16.

†*Garumnaster* p. 55 with *G. michaleti* pp. 55–56 fig. 4, *parvus* pp. 56–57 fig. 5, **Poslavskaia & Moskvin.**

†*Gauthieria*, **Devriès (3)** p. 113.

Genocidaris maculata, **Cherbonnier (1)** pp. 41–42.

†*Guettaria rocardi*, **Moskvin** pp. 269–270 fig. 78 pl. xvi figs. 2, 3.

†*Haimea ovum-serpentis*, **Cooke** pp. 14–16 pl. iv figs. 7–11, ? synonymous with *H. caillaudi* Michelin, 1851.

Hemiaster expergitus, **Cherbonnier (1)** pp. 48–49 figs. 7, 8, extension of range.

†*Hemiaster* p. 10 with *H. oliveirai* **sp. nov.** Cretaceous Brazil pp. 13–15 pl. iii figs. 1–4, *H. jacksoni* pp. 11–12 pl. i figs. 1–4, *H.* cf. *cranium* pp. 12–13 pl. i fig. 5, pl. ii figs. 1–6, **Santos & de Souza Cunha**; *H.* sp., **Cooke** pp. 8–9 pl. i figs. 5–9; *H. africanus* pl. viii fig. 1, *brahim* pl. vii fig. 3, *constrictus* pl. xv figs. 6–8, *heberti* pl. xvi fig. 8, *proclivus* pl. xvi fig. 9, *pseudofourneli* pl. xv figs. 4, 5, *tezanus* pl. vii fig. 2, *H.* sp. pl. vi figs. 4–7, pl. xxiv fig. 3, pl. xxx figs. 3, 4, **Devriès (3)**; *H. inkermanensis*, **Moskvin** pp. 292–293 pl. xxvi fig. 8; *H. calvini*, **Perkins** pp. 92–93 pl. xxxiv figs. 2–4; *H.* sp., **Rossi Ronchetti** pp. 358–359 pl. xxviii figs. 7–10; *H.* cf. *athenais* pp. 300–301 pl. xxv fig. 8, *H. batnensis* pp. 301–302 pl. xxv fig. 9, *fourneli* pp. 302–303 pl. xxv fig. 10, **Rossi Ronchetti & Albanesi.**

†*Hemipneustes delettrei* pl. vii fig. 17, *pyrenaicus* pl. viii fig. 2, **Devriès (3).**

†*Heteraster* pp. 59–99 with *H. mattaueri* **sp. nov.** Cretaceous Algeria pp. 62–63 pl. xiii figs. 1–11, *H. constrictus* pp. 63–64 pl. ix figs. 10–17, *oblongus* p. 61 pl. ix figs. 1–9, pl. xvii figs. 1–5, 26–30, pl. xviii figs. 4, 5, pl. xxiii figs. 1, 2, *peroni* p. 61 pl. x figs. 9–16, pl. xiv figs. 7–9, pl. xvi fig. 5, *pomeli* p. 61 pl. xi figs. 9–15, *subquadratus* p. 61 pl. x figs. 1–8, *tissoti* p. 61 pl. xi figs. 1–8, *transiens* p. 62 pl. xii figs. 1–11, also complete list of species, **Devriès (3)**; *H. greenovii*, **Villoutreys *in* Cayeux & Villoutreys** p. 11 fig. 6.

Heterocentrotus mammillatus, **Chang & Wu (1)** pp. 40–42 (in chinese) figs. 33, 34 pl. viii figs. 3, 4, pl. xvii figs. 1, 2 (coloured); *Heterocentrotus*, **Devriès (3)** pl. xxi fig. 4.

†*Heteroclypeus cotteaui*, **Kochansky** pp. 210–211; *H. cotteaui* Lambert and *lucae* Desor, synonyms of *Hypsoclypus plagiosomus*, **Roman (2)** p. 260.

†*Heterodiadema libycum*, **Devriès (3)** pl. xxxiii figs. 1–4 pl. xxxvii fig. 16.

†*Holaster desclozeauxi* pl. vii figs. 5, 14, 15, *intermedius* pl. viii fig. 3, *nodulosus* pl. vii figs. 9, 10, *H.* sp. pl. xxiv figs. 2, 4, pl. xxx fig. 2, **Devriès (3)**; *H. nodulosus*, **Drushchits & Kudryavtseva** p. 393 pl. ii figs. 4a–d; *H. nodulosus* pp. 252–253 fig. 50 pl. iv fig. 1, *planus* p. 254 fig. 52 pl. iv fig. 3, pl. v fig. 1, *subglobosus* p. 253 fig. 51 pl. iv fig. 2, **Moskvin**; *H. laevis* pp. 8–9, *suborbicularis* p. 9 fig. 3, *revestensis* p. 9 fig. 7, *H.* (*Labrotaxis*) *latissimus* pp. 9–10 fig. 9, **Villoutreys *in* Cayeux & Villoutreys.**

†*Holectypus* (*Caenholectypus*) *planatus aponensis* **subsp. nov.** Cretaceous Venezuela, **Cooke** p. 6 pl. ii figs. 4, 5; *H.* cf. *corallinum*, **Barczyk** pp. 72–73 pl. iv fig. 6; *H. hemisphaericus*, **Devriès (3)** pl. xxv; *H.* (*Caenholectypus*) *castilloi*, **Perkins** pp. 91–92 pl. xxxiv figs. 1, 5, 6; *H. orificatus*, **Poljak** p. 312.

†*Homocaster* p. 60 with *H. abichi* pp. 61–62 fig. 12 pl. iii figs. 3a–b, 4a–e, *evaristei* p. 61 fig. 11 pl. iii fig. 2a–e, *tunetanus* pp. 60–61 fig. 10 pl. iii fig. 1a, b, **Poslavskaia & Moskvin**; *H. abichi* pp. 274–275 pl. xviii fig. 2, *tunetanus* p. 274 pl. xviii fig. 1, **Moskvin.**

†*Hyattechinus*, **Devriès (3)** pl. xxxiii fig. 23.

†*Hypodiadema hoffmani*, **Barczyk** p. 70 pl. iv fig. 2.

†*Hypsoclypus* pp. 259–261 with *H. plagiosomus* p. 260, *semiglobus* pp. 260–261, **Roman (2).**

†*Infraclypeus thalebensis*, **Devriès (3)** pl. xxvi fig. 4, pl. xxxii, pl. xxxiii figs. 12, 22 pl. xxxix figs. 4, 5.

†*Infulaster excentricus* p. 271 pl. xvii fig. 4, *hagenowi* p. 272 pl. xvii fig. 5, **Moskvin.**

†*Isaster* pp. 66–67 with *I. abkhasicus* pp. 68–69 fig. 19 pl. v figs. 1–3, *aquitanicus* pp. 67–68 fig. 18 pl. iv figs. 4a, b, 5, 6a, b, **Poslavskaia & Moskvin.**

†*Isomicraster* p. 285 with *I. faasi* p. 285 fig. 100 pl. xxiii fig. 1, *gibbus* p. 286 fig. 101 pl. xxiii fig. 2, **Moskvin.**

†"*Isomicraster*" *ciplyensis*, **Moskvin** p. 289 pl. xxv fig. 5.

†*Isopneustes* p. 74 with *I. coloniae* pp. 74–75 fig. 25 pl. vi fig. 4a–e, **Poslavskaia & Moskvin.**

Laganum Link, 1807 with type species *Echinodiscus laganum* Leske, 1778 placed on the Official Lists of Generic and Specific Names, **Opinion 608** p. 262; *L. decagonale* pp. 51–52 (in chinese) fig. 40 pl. xx figs. 3–6, *depressum* pp. 50–51 pl. xx figs. 1, 2, *fudsiyama* pp. 52–54 fig. 41 pl. xx fig. 7, pl. xxi figs. 3, 4, **Chang & Wu (1)**.

†*Laganum* sp., **Deraniyagala** p. 154 pl. v figs. 7, 8.

†*Leiostomaster gentili*, **Devriès (3)** pl. vii figs. 6–8.

†*Leptechinus* pp. 110–112 with *L. heintzi* p. 112 pl. xix figs. 12–15, **Devriès (3)**.

†*Loevinia* (sic) cf. *balli*, **Said & Yallouze** pp. 78–79 pl. v fig. 10.

Lovenia elongata pp. 58–60 (in chinese) figs. 44, 45 pl. xxiii figs. 1–4, *subcarinata* pp. 60–61 fig. 46 pl. xxiii figs. 5–8, **Chang & Wu (1)**.

†*Lovenia minihagali* **sp. nov.**, Miocene Ceylon, **Deraniyagala** p. 154 pl. v fig. 9; *L. macrotuberculata* **sp. nov.** Eocene Austria, **Schaffer (1)** pp. 431–434 figs. e–g; *L.* sp. cf. *dumblei*, **Cooke** pp. 25–26 pl. xiii fig. 2.

Lozechinus albus, **Stuardo** fig. 3 (pt.).

†*Lytechinus variegatus*, **Cooke** p. 10 pl. v figs. 1, 2.

†*Macraster polygonus*, **Villoutreys in Cayeux & Villoutreys** pp. 11–12 fig. 2.

Maretia Gray, 1855 with type species *Spatangus planulatus* Lamarck, 1816 placed on the Official Lists of Generic and Specific Names, **Opinion 608** p. 262.

Mellita pp. 3–5 with *M. grantii* pp. 8–9 text-fig. 1C, pl. i figs. 3, 4, *longifissa* pp. 7–8 text-fig. 1A, pl. i fig. 1, *notabilis* p. 7 text-fig. 1B, pl. i fig. 2 pl. ii fig. 1, **Durham (2)**.

†*Mellita kanakoffi* **sp. nov.** Pleistocene California, U.S., **Durham (2)** pp. 5–7 text-fig. 1D, pl. ii fig. 2.

†*Menuthiaster*, **Devriès (3)** pl. viii fig. 13.

Metalia Gray, 1855 with type species *Spatangus sternalis* Lamarck, 1816 placed on the Official Lists of Generic and Specific Names, **Opinion 608** p. 262; *M. dicrana* new to the Australian fauna, **Endean (1)** p. 295.

†*Micraster* J. L. R. Agassiz, 1836 with type species *Spatangus coranguinum* Leske, 1778 placed on the Official Lists of Generic and Specific Names, **Opinion 608** p. 262; *Micraster* p. 279 with *M. coravium* p. 283 fig. 97 pl. xxii figs. 1, 2, *subglobosus* p. 280 fig. 92 pl. xix fig. 1, **spp. nov.** Cretaceous Caucasus, U.S.S.R., *M. brongniarti* p. 284 fig. 98 pl. xxii fig. 3, *coranguinum* pp. 281–282 fig. 94 pl. xx fig. 2, *cortestudinarium* pp. 280–281 fig. 93 pl. xix fig. 2, pl. xx fig. 1, *grimmensis* pp. 284–285 fig. 99 pl. xxii fig. 4, *rostratus* p. 282 fig. 95 pl. xxi fig. 1, *schroederi* pp. 282–283 fig. 96 pl. xxi fig. 2, **Moskvin**; *M. peini*, **Devriès (3)** pl. xxxviii fig. 5; *Micraster* with *M. coranguinum*, **Wilson** pp. 26–29 2 figs.

†"*Micraster*" *corbovis* pp. 286–287 fig. 102 pl. xxiv fig. 1, *heberti* pp. 288–289 fig. 105 pl. xxv figs. 3, 4, *leskei* pp. 287–288 fig. 103 pl. xxiv fig. 2, *rogalae* p. 288 fig. 104 pl. xxiv fig. 3, pl. xxv figs. 1, 2, **Moskvin**.

†*Minicidaris* **gen. nov.** p. 153 family Cidaridae for type *M. minihagali* **sp. nov.** Miocene Ceylon, p. 154 pl. v figs. 3, 4, **Deraniyagala**.

†*Moira atropos*, **Cooke** pp. 22–23 pl. vi figs. 1–4.

†*Offaster pilula* p. 263 fig. 70 pl. xv fig. 2, *pomeli* pp. 262–263 fig. 69 pl. xv fig. 1, **Moskvin**.

†*Oligopygus haldemani costuliformis* pp. 11–12 pl. iii figs. 1–3, *nancei* pp. 13–14, pl. ii figs. 10, 11, *rotundus* pp. 12–13 pl. iii figs. 4–6, *wetherbyi kugleri* p. 11 pl. iii figs. 9–11, **Cooke**.

†*Ornithaster sokolovi* **sp. nov.** Cretaceous Caucasus, U.S.S.R. p. 275 fig. 84 pl. xviii figs. 8, 9, *alapliensis* pp. 275–276 fig. 85 pl. xviii fig. 10, *munieri* p. 276 fig. 86 pl. xviii fig. 11, **Moskvin**; *Ornithaster* pp. 62–63 with *O. marsooi* pp. 63–64 fig. 14 pl. iii fig. 6a–e, *munieri* p. 63 fig. 13 pl. iii fig. 5a–e, **Poslavskaia & Moskvin**.

†*Orthechinus* with *O. aublini*, **Devriès (3)** p. 112.

Ova canalifera, **Cherbonnier (1)** pp. 47–48.

†*Ovulaster auberti*, **Devriès (3)** pl. vii fig. 4.

†*Palaeopedina globulus*, **Devriès (3)** pl. xxxiii fig. 6.

†*Palaeopneustes* aff. *cristatus*, **Hashimoto & Shibata** pp. 337–338 pl. xxxix figs. 1–3.

†*Palhemiaster peroni*, **Devriès (3)** pl. xvi fig. 7.

Paracentrotus lividus, **Cherbonnier (1)** pp. 44–45, **Devriès (3)** pl. xxii fig. 6.

Parasalenia gratiosa var. *boninensis*, **Chang & Wu (1)** pp. 33–35 figs. 28, 29 pl. vi figs. 3, 4 pl. xv figs. 4–7.

†*Paraster eustatii* **sp. nov.** Pliocene Lesser Antilles, **Engel** pp. 3–5 figs. 1–4.

†*Paronaster cupuliformis*, **Moskvin** p. 266 fig. 73 pl. xiii fig. 2, pl. xiv figs. 1, 2.

Pericosmus cordatus, **Chang & Wu (1)** pp. 61–63 (in chinese) fig. 47 pl. xxiv figs. 1, 2.

†*Pericosmus israelskyi* **sp. nov.** Miocene Costa Rica, **Durham (1)** pp. 481, 483 text-figs. 1I, L, 2E; *P. stehlini*, **Cooke** p. 25 pl. xiii figs. 3–6.

Peronella Gray, 1855 with type species *Laganum peronii* J. L. R. Agassiz, 1841 placed on the Official Lists of Generic and Specific Names, **Opinion 608** p. 262; *P. lesueuri*, **Chang & Wu (1)** pp. 48–49 (in chinese) pl. xix fig. 6.

†*Phyllobrissus zulianus* **sp. nov.** Cretaceous Venezuela, **Cooke** pp. 6–7 pl. i figs. 10–12; *P. floridus*, **Devriès (3)** pl. xxxiv figs. 2, 6.

†*Phymosoma trinitensis* **sp. nov.** Paleocene Trinidad, **Cooke** pp. 10–11 pl. ii figs. 1–3; *Phymosoma* (distinguished from *Rachiosoma*) pp. 113, 115, with *P. ambiguum* p. 116, *baylei* pp. 116–117 pl. xx figs. 1–6 pl. xxxvii figs. 2–8, *coquandi* p. 117 pl. xxxvi figs. 14, 15, *douvillei* p. 117, *foukanense* pp. 115–116 pl. xix fig. 17, pl. xxi figs. 1, 2, pl. xxxvi fig. 12, *guelbense* p. 117 pl. xxxiii fig. 7, pl. xxxvi fig. 16, *könighi* p. 117 pl. xxxvii fig. 1, *magnificum* p. 118, *majus* pp. 118–119 pl. xxxvii fig. 14, *mansour* p. 118, *maresi* p. 118 pl. xxxvii fig. 13, *mecied* p. 118, *meslei* p. 119 pl. xx figs. 9, 10, pl. xxxvii figs. 10–12, *raguini* p. 118 pl. xxxvii fig. 9, *saint-arromani* p. 118, *tamarinense* p. 116 pl. xix fig. 9, pl. xx fig. 8, pl. xxxvi fig. 13, *thevestens* p. 116, **Devriès (3)**.

Phymosomatidae, **Devriès (3)** pp. 101–138, systematic position, included genera, algerian spp.

†*Plagiobrissus costaricensis* pp. 485–487 text-figs. 1G, J, 2F pl. lxviii figs. 6, 9, 12, *malavassii* p. 487 text-figs. 1H, K, 2D pl. lxvii figs. 1, 3, 10 pl. lxviii fig. 1, **spp. nov.** Miocene Costa Rica, **Durham (1)**; *P. grandis* ?, **Cooke** p. 28 pl. xiii fig. 1.

†*Plesiechinus*, **Devriès (3)** pl. xxxiii figs. 10, 11.

†*Protobrissus ak-kajensis* **sp. nov.** Cretaceous Crimea and Caucasus, U.S.S.R. p. 290 pl. xxvi fig. 1, *P. depressus* p. 290 fig. 106 pl. xxvi figs. 2, 3, **Moskvin**; *Protobrissus* p. 75 with *P. indolensis* **sp. nov.** Paleocene Crimea, U.S.S.R. pp. 78, 81–82 fig. 29 pl. viii fig. 2a–e, *canaliculatus* pp. 75–76 fig. 26 pl. vii fig. 1a–e, *depressus* pp. 76–77 fig. 27 pl. vii fig. 2a–e, *tercensis* pp. 77–78 fig. 28, pl. vii fig. 3a, b pl. viii fig. 1a–c, **Poslavskaia & Moskvin**.

Psammechinus microtuberculatus, **Cherbonnier (1)** pp. 42–43.

†*Psammechinus aegyptiacus* p. 78 pl. v fig. 9, *dainelli* p. 78 pl. v fig. 6, *paraetoniensis* p. 78 pl. v figs. 7, 8, **Said & Yallouse.**

Pseudomaretia alta, **Chang & Wu (1)** pp. 56–58 (in chinese) fig. 43 pl. xxii figs. 3–6.

†*Pseudananchys* sp. indet., **Cooke** p. 8; *P. completa?* **Perkins** pp. 93–94 pl. xxxiv figs. 10, 11.

†*Pseudocidaris leckwycki*, **Colo & Petitot** p. 107.

†*Pseudodiadema* sp., **Devriès (2)** pl. i fig. 6; *P. kselensis* pl. xxxiii fig. 5, pl. xxxvii fig. 15, *variolare* pl. xx figs. 11, 12, pl. xxi fig. 3, **Devriès (3)**; *P. raulini*, **Sučić-Protić** pp. 125–126.

†*Pseudoholaster bicarinatus*, **Villoutreys** *in* **Cayeux & Villoutreys** p. 10 fig. 1.

†*Pseudooffaster schmidti* **sp. nov.** Cretaceous Caucasus, U.S.S.R. p. 270 fig. 79 pl. xvii fig. 1, *caucasicus* pp. 270–271 fig. 80 pl. xvii fig. 2, *renngarteni* p. 271 fig. 81 pl. xvii fig. 3, **Moskvin.**

†*Pseudopygurus* pp. 217, 221 diagnosed with *P. hathirae* **sp. nov.** Jurassic Israel pp. 217–222 fig. 1 pl. i, **Parnes.**

†*Pygaster morrisi*, **Barczyk** pp. 73–74 pl. v fig. 2; *Pygaster*, **Devriès (3)** pl. xxix figs. 1, 3 pl. xxxiii figs. 8, 9, 18; *Pygaster*, **Melville** pp. 243–246 pls. xxviii, xxix.

†*Pygomalus analis*, **Devriès (3)** pl. xxxiv fig. 4.

†*Pygorrhitis pseudoringens*, **Devriès (3)** pl. xxix fig. 2.

†*Pygurus costatus*, **Barczyk** pp. 74–75 pl. v fig. 1.

†*Pyrina*, **Devriès (3)** pl. xxviii fig. 1.

†*Rachiosoma* (distinguished from *Phymosoma*) p. 113 with *R. delamarrei* pp. 113–114 pl. xix figs. 8, 16, 18, pl. xx fig. 7, pl. xxxvi fig. 6, *peroni* p. 114 pl. xxxvi fig. 7, *pristinense* p. 114 pl. xxxvi fig. 8, *rectilineatum* p. 114, *regale* p. 115, *schlumbergeri* p. 115, *stagnorum* p. 115 pl. xxxvi fig. 9, *subasperum* p. 115 pl. xix figs. 19, 20, pl. xxxvi figs. 10, 11, **Devriès (3).**

†*Rhabdocidaris orbignyi*, **Barczyk** pp. 69–70 pl. iv fig. 1; *R. maxima*, **Poljak** p. 311.

Rhinobrissus pyramidalis, **Chang & Wu (1)** pp. 65–67 (in chinese) figs. 51, 52 pl. xxv figs. 3–6.

†*Rhynobrissus rostratus* **sp. nov.** Miocene ? Venezuela, **Cooke** p. 29 pl. xiv figs. 1–4.

†*Rispolia douvillei*, **Devriès (3)** pl. viii figs. 8, 9.

†*Rotuloidea fimbriata*, **Colo & Petitot** p. 107.

Salmacis bicolor rarispina pp. 26–27 (in chinese) figs. 21, 22 pl. xii figs. 4–6, *bicolor typica* pp. 25–26 figs. 19, 20 pl. xii figs. 1, 2, *sphaeroides variegata* pp. 27–29 figs. 23, 24 pl. xi figs. 3–7, **Chang & Wu (1).**

†*Schizaster costaricensis* **sp. nov.** Miocene Costa Rica, **Durham (1)** pp. 483–484 text-figs. 1C, F, 2G, H pl. lxviii figs. 8, 10, 11, 13; *S. canaliferus* pl. xvi figs. 1–4, pl. xxii fig. 1, *S.* sp. pl. viii fig. 5, **Devriès (3)**; *? Schizaster* sp., **Kochansky** p. 210; *S. dilatatus*, **Roman (3)** pp. 90–92 pl. v fig. 3; *S. lucidus*, **Schaffer (1)** pp. 430–431.

†*Schizobrissus kewi* **sp. nov.** Miocene Costa Rica, **Durham (1)** pp. 484–485 text-figs. 1B, E, 2C, pl. lxvii figs. 2, 6, 9.

†*Scutella* aff. *gibbercula*, **Roman (3)** pp. 89–90 pl. viii fig. 3; *S. ammonis* p. 76, *stefaninii* p. 77 pl. v fig. 34, **Said & Yallouse**; *S. tenera*, **Schaffer (1)** pp. 424–426 fig. d.

†*Scutellaster interlineatus* p. 165 pl. xv fig. d, *oregonensis* pp. 165–166 pl. xv fig. a, **Glen.**

†*Seunaster altus* p. 268 fig. 76 pl. xv fig. 7, *gillieroni* p. 267 fig. 75 pl. xv fig. 6, *lamberti* pp. 268–269 fig. 77 pl. xvi fig. 1, **Moskvin.**

†*Spatagoides striato-radiatus*, **Moskvin** pp. 264–265 fig. 72 pl. xii fig. 1, pl. xiii fig. 1.

Spatagus O. F. Müller, 1776 suppressed under the plenary powers pp. 262–264, *S.* [now *Echinocardium*, REC.] *flavescens* placed on the Official List of Specific Names and interpreted by the neotype designated by Melville, 1960, p. 262, **Opinion 608.**

Spatangus purpureus, **Cherbonnier (1)** p. 50, **Devriès (3)** pl. viii fig. 4 pl. xxii fig. 4.

†*Spatangus* cf. *euglyphus*, **Kochansky** p. 210.

Sphaerechinus granularis, **Cherbonnier (1)** pp. 45–46.

†*Stegaster chalmasi*, **Moskvin** p. 267 fig. 74 pl. xv fig. 5.

†*Stenonaster tuberculatus*, **Devriès (3)** pl. viii fig. 12.

†*Stomechinus semiplacenta*, **Barczyk** pp. 71–72 pl. iv fig. 4.

†*Strongylocentrotus minihagali* **sp. nov.** Miocene Ceylon, **Deraniyagala** p. 154 pl. v fig. 10.

†*Studeria meslei*, **Roman (2)** pp. 252–253.

Stylocidaris annulosa pp. 4–6 (in chinese) figs. 1, 3, 5 pl. i figs. 1–3, *reini* var. *cladothrix* pp. 6–8 figs. 2, 4 pl. i figs. 4–6, **Chang & Wu (1).**

Temnopleurus (*Toreumatica*) *reevesii* pp. 23–24 (in chinese) fig. 18 pl. iv figs. 3–5, pl. x figs. 4, 5, *T. toreumaticus* pp. 22–23 pl. ix figs. 3, 4, **Chang & Wu (1).**

†*Temnopleurus toreumaticus*, **Gonçalves** pp. 739–740 pl. i figs. 1–4, pl. ii figs. 1–4.

†*Tetragramma* sp., **Cooke** p. 6.

†*Thagastea wetterlei*, **Devriès (2)** pp. 109–112 figs. 1, 2 pl. i figs. 1–4, pl. ii figs. 7–9.

†*Thylechinus* with *T. ioudi* p. 112, *saïd* p. 112, pl. xix fig. 11, pl. xxxvi figs. 2, 3, *schlumbergeri* p. 112, **Devriès (3).**

†*Tithonia convexa*, **Devriès (3)** pl. vii fig. 1, pl. xxxix figs. 6, 7, *latipora* pl. xxxiii figs. 19, 20; *T. exile*, **Drushchits & Kudryavtseva** p. 392 pl. i figs. 8a–r, 9a–v.

†*Toxaster* pp. 13–56 with *T. laffitei* pp. 21–22 pl. v figs. 10–20 pl. viii fig. 14, pl. xxxi, pl. xxxiii fig. 24, pl. xxxv fig. 15–16, *mattaueri* p. 21 pl. v figs. 1–9, pl. xxxv fig. 2, **spp. nov.** Cretaceous Algeria, *T. africanus* p. 16 pl. i figs. 1–12 pl. viii fig. 11, pl. xvii figs. 16–20, pl. xvii figs. 1–3, pl. xxiv fig. 1, pl. xxx fig. 5, pl. xxxv figs. 1, 4, *africanus* var. *rochei* pl. i figs. 13, 14, *collegnoi* p. 16 pl. i figs. 18–25, pl. viii fig. 15, *collegnoi* var. *dallonii* pp. 16–17 pl. ii figs. 1–5, *granosus* pp. 17–18 with vars. *kiliani* pl. ii figs. 11–15 and *holasteroides* pl. ii fig. 16, pl. xxxv fig. 3, *T. neocomensis* p. 18 pl. iii figs. 17–24, *radula* pp. 18–19 pl. iv figs. 1, 2, *retusus* p. 19 pl. iv figs. 3–9, *subcavatus* pp. 19–20 pl. i figs. 15–17, *subcylindricus* p. 20 pl. iv figs. 10–17, *villei* pp. 20–21 pl. iv figs. 18–25, *T.* spp. pl. xvii figs. 11–15, 21–25, also complete list of species p. 29, **Devriès (3)**; *T. breyniusi* p. 395 pl. ii figs. 3a–d, *granosus* p. 394 pl. ii figs. 1a–d, *retusus* p. 394 pl. ii figs. 2a–d, **Drushchits & Kudryavtseva**; *T.* (*Echinospatagus*) cf. *ricordeanus*, **Sučić-Protić** p. 126.

Toxopneustes pileolus, **Chang & Wu (1)** pp. 29–31 (in chinese) fig. 25a pl. xiii figs. 3–5, pl. xiv figs. 5–7; *T. pileolus* new to the Australian fauna, **Endean (1)** pp. 293–294, **Endean (2)** pp. 320–321.

Tripneustes gratilla, **Chang & Wu (1)** pp. 31–33 (in chinese) figs. 25b, 26, 27, pl. xiii figs. 1, 2, pl. xiv figs. 1–4.

†*Trochotiara mamillanum*, **Barczyk** p. 71 pl. iv figs. 3–5.

†*Urechinus*, **Devriès (3)** pl. vii fig. 12.

†*Weisbordella mirabilis*, **Cooke** p. 20 pl. iii figs. 7, 8.

SOMASTEROIDEA

Platasterias latiradiata, **Fell** *in* **Anon.** (Somasteroid nature discovered).

ASTEROIDEA

Abyssaster **gen. nov.** family Porcellanasteridae for type *Hyphalaster tara* Wood-Mason & Alcock, with key to spp. pp. 72–73, *A. diadematus* p. 79, *planus* p. 80, *tara* pp. 73–79 figs. 8, 9 pl. iv, **Madsen (1)**.

Albatrossaster Ludwig, 1907 with *A. richardi* synonymous with *Porcellanaster* and *P. caeruleus*, **Madsen (1)** pp. 123, 126.

Albatrossia Ludwig, 1905 with *A. semimarginalis* synonymous with *Porcellanaster* and *P. caeruleus*, **Madsen (1)** pp. 123, 126.

Anseropoda placenta, **Cherbonnier (1)** p. 17.

Anthenoides brasiliensis, **Bernasconi (1)** pp. 24–25.

†*Asterias*? sp., **Müller** pl. ii figs. 2–4.

Asterina gibbosa, **Cherbonnier (1)** p. 16; *A. dyscrita*, **Hayashi** pp. 5–6 pl. i figs. 1, 2.

Astropecten brasiliensis brasiliensis p. 23 pl. i fig. 1, *brasiliensis riensis* pp. 23–24 pl. iii fig. 2, *cingulatus* p. 22 pl. i fig. 2, **Bernasconi (1)**; *A. aranciacus* p. 12, *bispinosus* pp. 12–13, *irregularis pentacanthus* pp. 13–14, *johnstoni* p. 11, *spinulosus* p. 11, **Cherbonnier (1)**.

†*Astropecten* (*Archastropecten ?*) sp., **Avnimelech (2)** pp. 5–6 figs. 1, 2; *A. phillipsi*, **Pcelincev** *in* **Krimholz** pp. 82–83 pl. xxxii fig. 2.

Benthogenia p. 81 with *B. cribellosa* pp. 81–82, **Madsen (1)**.

Brisingella coronata, **Cherbonnier (1)** pp. 18–19.

Caulaster Perrier, 1882 with *C. pedunculatus*, *sladeni* and *dubius* synonyms of *Porcellanaster* and *P. caeruleus*, **Madsen (1)** pp. 123, 126.

Ceremaster (sic) *placenta*, **Cherbonnier (1)** p. 15.

Chaetaster longipes, **Cherbonnier (1)** p. 18.

Coscinasterias tenuispina, **Cherbonnier (1)** p. 19.

Cosmasterias lurida, **Stuardo** fig. 3 (pt.).

Dytaster spinosus, **Bruun & Wolff** fig. 1.

Echinaster sepositus, **Cherbonnier (1)** pp. 17–18.

Eremicaster with key to spp. pp. 143–145, *E. crassus* pp. 145–155 figs. 25–28 pls. xi, xii, *gracilis* (with synonyms *Porcellanaster tenebrarius* Fisher, 1905, *waltharii* Ludwig, 1905) pp. 155–160 fig. 29 pl. xiii figs. 1, 2, *pacificus* pp. 160–161, *vicinus* pp. 161–165 fig. 30, **Madsen (1)**.

Hacelia attenuata, **Cherbonnier (1)** p. 16.

Henricia angusta Bering Sea pp. 18–19 pl. i fig. 5 pl. x figs. 40–41, *hayashi* Japan Sea pp. 22–23 pl. ii fig. 8 pl. xiii figs. 54–55, *imitatrix* Okhotsk Sea p. 23 pl. iii fig. 10 pl. xiii figs. 56–57, *inexpectata* Okhotsk Sea pp. 21–22 pl. xii figs. 50–51, *singularis* Okhotsk Sea pp. 26–27 pl. iii fig. 12 pl. xvi figs. 65–67, **spp. nov.**, *H. ambigua* p. 20 pl. xi figs. 46–47, *aniva* p. 19 pl. ii figs. 6a, b pl. x figs. 42–43, *arctica* p. 30 pl. iv fig. 17 pl. v fig. 18 pl. xviii fig. 75, *aspera* pp. 24–25 pl. xv figs. 61–62, *beringiana* p. 34 pl. vii figs. 29–30 pl. xx fig. 83 pl. xxi fig. 85, *densispina* pp. 20–21 pl. xi figs. 48–49, *derjugini* pp. 34–35 pl. vii figs. 27–28 pl. xxi fig. 86 pl. xxii figs. 87–88, *elegans* p. 17 pl. i fig. 4 pl. x figs. 38–39, *granulifera* p. 27 pl. v fig. 20 pl. xvii figs. 68–69, *irregularis* pp. 35–36 pl. vi fig. 25 pl. xxii fig. 89, *kurilensis* p. 26 pl. xvi figs. 63–64, *leviuscula* pp. 23–24 pl. ii fig. 9 pl. xiv figs. 58–60, *longispina* pp. 27–28 pl. v fig. 21 pl. xviii pl. 76 pl. xix figs. 77–78, *ochotensis* p. 31 pl. vi figs. 22–23 pl. xix fig. 79, *orientalis* p. 32 pl. vi fig. 24 pl. xix fig. 80, *pacifica* pp. 16–17 pl. i fig. 2 pl. ix figs. 34–35, *pseudoleviuscula* p. 17 pl. i fig. 3 pl. ix figs. 36–37, *reniossa asiatica* p. 22 pl. iii fig. 11 pl. xii figs. 52–53, *reticulata* p. 33 pl. vi fig. 26 pl. xx figs. 81–82 pl. xxi fig. 84, *sachalinica* pp. 30–31 pl. v fig. 19 pl. xvii figs. 70–71 pl. xviii fig. 72, *spiculifera* pp. 15–16 pl. i fig. 1 pl. viii figs. 31–33, *tacita* p. 19 pl. ii fig. 7 pl. xi figs. 44–45, *tumida* pp. 28–30 pl. iii fig. 13 pl. iv figs. 15–16 pl. xviii figs. 73–74, **Djakonov (2)**; *H.* sp., **Hayashi** pp. 7–8 text-fig. 3, pl. i figs. 3, 4.

Hippasteria argentinensis **sp. nov.** Argentina, **Bernasconi (2)** pp. 1–2 fig.

Hyphalaster emended, with key to spp. pp. 56–57, *H. giganteus* p. 72, *hyalinus* p. 58, *inermis* (with synonyms *parfaiti* and *antonii* Perrier 1885, *moseri* Ludwig, 1905, *fortis* and *gracilis* Koehler, 1907 and ? *giganteus* Macan, 1938) pp. 58–72 figs. 6, 7 pls. i–iii, xiii figs. 3, 4, *scotiae* p. 72, **Madsen (1)**.

†*Lophidiaster pygmaeus*, **Müller** text-figs. 3f, 4a.

Luidia quequenensis, **Bernasconi (1)** pp. 21–22 pl. iii fig. 1; *L. ciliaris* p. 15, *sarsi* p. 14, **Cherbonnier (1)**.

Lysaster p. 80 with *L. lorioli* pp. 80–81, **Madsen (1)**.

Marthasterias glacialis, **Cherbonnier (1)** p. 19.

†*Metopaster undulatus* (with synonym *M. granulatus* Nielsen, 1943) pp. 272–276 text-figs. 1, 2, pl. i figs. 1–15, pl. ii fig. 1, *M. poulsenii* pl. iv fig. 2, *M.* aff. *poulsenii* text-figs. 3c, 4d, pl. v figs. 1, 2, 6–14, *M. recurvatus* pl. v figs. 15–28, *tumidus* text-figs. 3a, 4e, pl. v figs. 3–5, **Müller.**

Odontaster validus, **Hayashi** pp. 3–5 text-figs. 1, 2, pl. i figs. 5, 6.

Ophidiaster ophidianus, **Cherbonnier (1)** p. 15.

†? *Ophryaster magnus*, **Müller** text-fig. 4c.

Oreaster reticulatus, **Bernasconi (1)** p. 25.

Platasterias latiradiata a Somasteroid, **Fell** *in* **Anon.**

Porcellanaster (with synonyms *Caulaster* Perrier, 1882, *Albatrossia* Ludwig, 1905 and *Albatrossaster* Ludwig, 1907) pp. 123–126, *P. caeruleus* (with synonyms *Caulaster pedunculatus* Perrier, 1882, *P. caulifer* and *tuberosus* Sladen, 1883, *C. sladeni* Perrier 1885, *P. inermis* and *granulosus* Perrier, 1885, *eremicus* Sladen, 1889, *Albatrossia semimarginalis* Ludwig, 1905, *C. dubius* Koehler, 1909, *Albatrossaster richardi* Koehler, 1909, *P. fragilis* Döderlein, 1921, *irregularis* Lieberkind, 1932) pp. 126–142 figs. 22–24, **Madsen (1)**.

Porcellanasteridae, with keys to genera and species, **Madsen (1)**.

†*Pcyinaster rasmusseni*, **Müller** text-figs. 3d, 4b, pl. iii fig. 3, pl. iv figs. 1.

†*Recurvaster radiatus*, **Müller** text-fig. 3b.

Scleriasterias (sic) *richardi*, **Cherbonnier (1)** p. 20.

Sidonaster pp. 165–166 with *S. vaneyi* pp. 166–167, **Madsen (1)**.

†*Stauranderaster* cf. *senonensis*, **Müller** pl. iii fig. 2.

Stichaster striatus, **Bernasconi (3)** pp. 319–321 fig.

Styracaster with key to spp. pp. 92–93, *S. armatus* pp. 119–121 fig. 21, *caroli* pp. 107–110 fig. 18 pl. ix, *chuni* pp. 113–118 figs. 3, 20 pl. x figs. 3–5, *clavipes* p. 123, *elongatus* pp. 110–113 fig. 19 pl. x figs. 1, 2, *horridus* (with synonym *Chunaster scapanephorus* Ludwig, 1907) pp. 93–107 figs. 12–17 pls. vii, viii, *monacanthus* p. 123, *paucispinus* pp. 118–119, *robustus* p. 119, *spinosus* (with synonym *edwardsi* Perrier, 1885) pp. 121–123, **Madsen (1)**.

Tethyaster with key to Mexican species pp. 449–451, 459, *T. canaliculatus* and *gigas* pp. 450–451, *grandis* pp. 451–459 (all 6 figures and 2 plates ? of *gigas*, REC.), **Caso**; *T. subinermis*, **Cherbonnier (1)** p. 14.

Thoracaster p. 82 with *T. cylindratus* (with synonyms *Pseudaster cordifer* Perrier, 1885, *Hyphalaster valdiviae* Ludwig, 1900, *T. magnus* Ludwig, 1907 and *T. alberti* Koehler, 1909) pp. 82–92 figs. 10, 11 pls. v, vi, **Madsen (1)**.

OPHIUROIDEA

Amphioda (sic) *urtica*, **Anon.** p. 35 fig. 4.

Amphiodia p. 40, with *A. joubini* pp. 40–43 text-fig. 4, pl. xvi fig. 3 pl. xvii fig. 4 with synonym *A. destinata* Koehler, 1922, **Fell (3)**.

Amphiophiura relegata Koehler, 1922 the type species of the new genus *Theodoria* **Fell (3)** p. 56.

Amphipholis tissieri **sp. nov.**, S. France, **Reys** pp. 153–154 figs. 1, 2; *A. squamata*, **Cherbonnier (1)** p. 30.

Amphiura delamarei **sp. nov.** Balearic Is., Mediterranean, pp. 27–29 fig. 1A–D, *A. apicula* p. 27, *chiajei* p. 26, *filiformis* p. 26, *mediterranea* p. 27, **Cherbonnier (1)**; *Amphiura* with key to the Ross Sea species p. 38, *A. algida* p. 40 pl. xvi fig. 2, pl. xvii fig. 2, pl. xviii fig. 2, *belgicae* pp. 38–39 pl. iid fig. 2, pl. xvi fig. 4, pl. xvii fig. 3, *A. joubini* referred to *Amphiodia* pp. 40–41, **Fell (2)**.

Amphiuridae, key to the Ross Sea genera, **Fell (3)** p. 38.

†*Aspidura ludeni*, **Entscheva** pp. 235–236 pl. i figs. 1a, b; *A. Raiblana*, **Hess (2)** p. 790.

Astrochlamys pp. 27–28, with key to the species and *A. bruneus* pp. 28–29 pl. x figs. 3, 7, 8 pl. xi figs. 1, 4, 7, col. pl. 2c, **Fell (3)**.

Astrohamma p. 29, with *A. tuberculatum* pp. 29–30 pl. x figs. 5, 6 pl. xi figs. 2, 5, **Fell (3)**.

Astrospartus mediterraneus, **Cherbonnier (1)** p. 21.

Astrotoma pp. 25–26, with *A. agassizii* pp. 26–27 pl. ia fig. 2, pl. x figs. 1, 2, 4, pl. xviii fig. 4, col. pl. i, col. pl. 2b, **Fell (3)**.

Euvondrea **gen. nov.** family Ophiuridae pp. 839–841, for type *E. floretta* **sp. nov.** Ross Sea p. 841 figs. 2, 3, **Fell (1)**; *Euvondrea* pp. 63–64, with *E. floretta* pp. 64–65 text-fig. 6 pl. iv figs. 1–4, **Fell (3)**.

Glaciacantha **gen. nov.** family Ophiacanthidae p. 839, for type *G. jason* **sp. nov.** Ross Sea p. 839 figs. 4–6, **Fell (1)**; *Glaciacantha* p. 36, with *G. jasoni* pp. 36–38 text-fig. 3 pl. vii figs. 1, 2, **Fell (3)**.

Gorgonocephalidae, with key to the Ross Sea genera, **Fell (3)** p. 25.

Gorgonocephalus arcticus, **Bellomy** pp. 301–304 2 figs.

Ophiacantha aquilonia **sp. nov.** Kurile Islands, **Djakonov (1)** p. 95; *O. setosa*, **Cherbonnier (1)** pp. 25–26; *Ophiacantha* p. 30, with key to the Ross Sea species, *O. antarctica* pp. 32–33 pl. iii fig. 1, pl. xiv fig. 7, pl. xv fig. 6, col. pl. iib–d, *pentactis* pp. 31–32 pl. xiv fig. 1, pl. xv fig. 2, *vivipara* pp. 30–31 pl. xiv fig. 2, pl. xv fig. 1, col. pl. iia, **Fell (3)**.

Ophiacanthidae, with key to the Ross Sea genera, **Fell (3)** p. 30.

Ophiactis balli, **Cherbonnier (1)** pp. 30–31.

Ophioceres pp. 68–69 with key to the species, *O. incipiens* pp. 67–70 pl. ia fig. 3, pl. iia fig. 1, pl. iii fig. 2, pl. ix fig. 2 (2), **Fell (3)**.

†*Ophiocoma* ? *rasmusseni* **sp. nov.** Cretaceous Kent, England, **Hess (1)** pp. 753–756 figs. 1B, 5–7.

Ophiocomina nigra, **Cherbonnier (1)** p. 24.

Ophioconis forbesi, **Cherbonnier (1)** pp. 31–32; *O. antarctica* Lyman, 1882 referred to *Toporkovia*, **Fell (2)** p. 1257, **(3)** p. 43.

Ophiocten abyssicolum pp. 37–39 figs. 4–6 distinct from N. Atlantic *sericeum*, **Cherbonnier (1)**; *Ophiocten* p. 49, with *O. megaloplax* pp. 49–50 pl. viii figs. 4, 6, **Fell (3)**.

Ophiodaces Koehler, 1922 a valid genus distinct from *Ophiodictys*, **Fell (3)** p. 35, *O. inanis* pp. 35–36 pl. vi figs. 1, 4.

Ophioderma longicauda, **Cherbonnier (1)** p. 31.

†*Ophioderma schistovertebrata* **sp. nov.** Triassic China, **Yang** pp. 161, 162–163 pl. i; *O. carinata* pp. 777–778, *egertoni* pp. 778–781 figs. 16, 17, *escheri* pp. 758–773 figs. 1–13, *gaveyi* pp. 782–788 figs. 19–21, *milleri* pp. 774–777 figs. 14, 15, *tenuibrachiata* pp. 781–782 fig. 18, *O. egertoni*, *escheri*, *gaveyi* and *milleri* all being referred to *Palaeocoma* d'Orbigny, **Hess (2)**; *Ophioderma* sp., **Sun, Chan & Shao** p. 149 pl. ii fig. 3.

Ophiodermatidae p. 43, **Fell (3)**.

Ophiodictys Koehler, 1922 type species *O. uncinatus* Koehler, **Fell (3)** p. 35.

Ophiogona, **Fell (3)** p. 53.

Ophiolepidinae, with key to the Ross Sea genera, **Fell (3)** p. 68.

†*Ophiolepis leckenbyi*, **Sun, Chan & Shao** p. 149 pl. ii fig. 4.

Ophiolimna pseudopapillata **sp. nov.** Kurile Islands, **Djakonov (1)** p. 94.

Ophiomastus p. 53, with *O. bispinosus* pp. 53–54 pl. xix figs. 1–4, **Fell (3)**.

†*Ophiomusium* sp., **Hess (1)** p. 756 figs. 1C, 8.

Ophiomyces peresi **sp. nov.**, S. France, **Reys** pp. 154–155 fig. 3–5, photos a, b.

Ophiomyxa pentagona, **Cherbonnier (1)** pp. 21–22.

Ophionotus p. 47 with *O. victoriae* pp. 47–48 pl. xiv fig. 5, pl. xv fig. 7, pl. xviii fig. 5, col. pl. iid, **Fell (3)**.

Ophioperla referred to family Ophiuridae rather than Ophioleucidae, **Fell (3)** pp. 45, 48, *O. koehleri* p. 49.

Ophiopholis aculeata, **Kuznetzov & Sokolova** pp. 98–101.

Ophiophragmus filograneus, **Thomas** pp. 158–160.

Ophiopsila annulosa p. 25, *aranea* pp. 24–25, **Cherbonnier (1)**.

Ophiopyren p. 45 with *O. regularis* pp. 45–46 pl. vi figs. 2, 3, **Fell (3)**.

Ophiosparte p. 34, with *O. gigas* pp. 34–35 pl. xiv fig. 4, pl. xv fig. 3, **Fell (3)**.

Ophiosteira bullivanti **sp. nov.** Ross Sea, **Fell (1)** p. 841, fig. 1; *Ophiosteira* p. 65 with key to Ross Sea species, *O. antarctica* pp. 65–66 pl. viii figs. 2, 3, *bullivanti* pp.

67–68 text-fig. 7, pl. v figs. 4, 5, pl. viii fig. 1, *echinulata* p. 67 pl. v figs. 1–3, pl. viii fig. 5, *O. senouqui* Koehler, 1912 a synonym of *Ophiuroglypha carinifera* p. 54, **Fell (3)**.

Ophiothrix fragilis pp. 22–23, *quinquemaculata* pp. 23–24, **Cherbonnier (1)**.

†*Ophiotitanos tenuis*, **Hess (1)** pp. 747–752 figs. 1A, 2–4.

Ophiura p. 50, with key to the Ross Sea species, *O. ambigua* pp. 51–52 pl. xiv figs. 3, 6 pl. xv figs. 4, 5, pl. xviii fig. 3, col. pl. iic, *crassa* raised to specific rank from variety of *flexibilis*, pp. 52–53 pl. xi figs. 3, 6, *flexibilis* p. 52 pl. vii figs. 3, 6, **Fell (3)**; *O. africana* pp. 35–37 fig. 2A–B, fig. 3 (extension of range), *albida* p. 32, *carnea* p. 34, *texturata* pp. 32–33, **Cherbonnier (1)**.

†*Ophiura ventrocarinata*, **Hess (2)** pp. 788–789.

Order Ophiurida, with key to the antarctic suborders, families and sub-families, **Fell (3)** pp. 24–25.

Ophiurinae, with key to the Ross Sea genera pp. 46–47, **Fell (3)**.

†*Ophiurites rhæticus* (provisional name), **Laugier** pp. 3024–3026 figs. 1, 2.

Ophiuroglypha p. 54, with *O. carinifera* pp. 54–55 pl. ix fig. 1, **Fell (3)**.

Ophiurolepis pp. 57–58, with key to Ross Sea species, *O. brevirima* pp. 60–61 pl. xii fig. 2, pl. xiii figs. 3, 6, *gelida* pp. 58–60 pl. ib fig. 1, pl. iic fig. 4, pl. xii figs. 1, 3–5, col. pl. i, col. pl. iia, b, *martensi* pp. 61–62 pl. xiii figs. 2, 5, *tuberosa* pp. 62–63 pl. xiii figs. 1, 4, *O. partita* (Koehler) and *wallini* Mortensen referred to new genus *Theodoria* pp. 55–57, **Fell (3)**.

†*Palaeocoma*, see †*Ophioderma*.

***Theodoria* gen. nov.** family Ophiuridae pp. 55–56, for type *Amphiophiura relegata* Koehler, 1922, also including *Ophioglypha partita* Koehler, 1908 and *Ophiurolepis wallini* Mortensen, 1925, possibly also *Ophioglypha frigida* Koehler, *T. relegata* pp. 56–57 pl. vii figs. 4, 5, *wallini* p. 57, **Fell (3)**.

Toporkovia antarctica, **Belyaev & Ivanov** pp. 1258–1260, **Fell (2)** pp. 1257–1258 fig.; *Toporkovia* p. 43 with *T. antarctica* pp. 43–44 text-fig. 5 pl. xvi fig. 1, pl. xvii fig. 1, pl. xviii fig. 1, **Fell (3)**.

CRINOIDEA

Crinoidea, Cretaceous groups, artificial key, **Rasmussen** p. 18.

†*Abrotocrinus* ? sp., **Wright** p. 331 pl. B fig. 8.

†*Acrochordocrinus* Trautschold, 1859 a synonym of *Cyclocrinus*, **Rasmussen** p. 163.

†*Actinocrinites* sp., **Wright** p. 334 pl. A fig. 10.

†*Actinometra vagnacensis* Kilian, 1913 an incorrect spelling of *Solanocrinites ricordeanus vagnasensis*, *A. batalleri* Astre, 1925 ? a synonym of the same subspecies, **Rasmussen** p. 262.

†Adinocrinidae fam. nov. order Inadunata for *Adinocrinus* Kirk and *Protencrinus* Jaekel, **Strimple (10)** p. 63.

†*Adinocrinus* referred to new family above, **Strimple (10)** pp. 17, 63.

†*Aesiocrinus erectus* referred to *Anobasicrinus*, **Strimple (10)** p. 118.

†*Agassizocrinus* sp., **Strimple (4)** pp. 158–160 figs. 1–5.

†*Aglaocrinus* **gen. nov.** p. 86 family Ethelocrinidae for type *Ethelocrinus magnus* also including *E. iatani* and *expansus*, *Parulocrinus compactus* and *pustulosus*, *A. magnus* pp. 87–89 text-fig. 19 pl. vi fig. 4, pl. viii figs. 1–3, **Strimple (10)**.

†*Allionia* Michelotti, 1861 not a synonym of *Glenotremites* Goldfuss, but closely related to *Discometra* Gislén, **Sieverts-Doreck (1)**.

†*Allosocrinus* p. 104 with *A. libratus* **sp. nov.** Carboniferous Oklahoma, U.S. pp. 105–106 pl. v figs. 4–6, pl. xv fig. 5, **Strimple (10)**.

†Ampelocrinidae with list of genera, **Strimple (10)** p. 101.

†*Amphicrinus* with *A. tuberculatum* (*luberculatus* in figure caption) **sp. nov.** Carboniferous U.S.S.R., p. 417 figs. 3, 4, *A. scoticus* p. 417 figs. 1, 2, **Yakovlev.**

†*Amphoracrinus gilbertsoni*, **Wright** p. 333.

†*Amphorometra* with key to the species pp. 328–329, *A. bellilensis* p. 329 pl. xlix fig. 3, *brydonei* pp. 329–330 pl. xlix fig. 2, *bruennichi* pp. 330–331 pl. xlviii fig. 1, *conoidea* pp. 331–334 pl. xlviii figs. 2–4, *parva* pp. 334–335 pl. xlviii figs. 6, 7, *pyropa* pp. 335–336, pl. xlix fig. 4, *rugiana* pp. 336–337 pl. xlviii fig. 5, *semiglobularis* pp. 337–338 pl. xlix fig. 1, *A. alta* Gislén, 1925 ? a synonym of *conoidea* p. 332, **Rasmussen.**

†*Anemetocrinus wilsoni*, **Wright** p. 330 pl. A fig. 12 pl. B figs. 3, 4.

†Anobasicrinidae fam. nov. order Inadunata for genera *Anobasicrinus*, *Plummericrinus* and ? *Gloukosocrinus*, **Strimple (10)** p. 114.

†*Anobasicrinus* **gen. nov.** pp. 114–115 family Anobasicrinidae for type *A. bulbosus* **sp. nov.** Carboniferous Oklahoma, U.S. pp. 115–118 text-fig. 21 pl. iii figs. 1–3, pl. vii figs. 1–3, *A. obscurus* **sp. nov.** Carboniferous Oklahoma pp. 120–122 text-fig. 20 pl. vii figs. 4–7, *perplexus* **nom. nov.** for *Plummericrinus erectus* Strimple, 1954 a homonym of *A.* (formerly *Aesiocrinus*) *erectus* Strimple, 1951 pp. 119–120, *A. erectus* pp. 118–119, genus also includes *Plummericrinus braggsi* and *granulosus* and *Neozeacrinus praecursor* p. 115, **Strimple (10)**.

Antedon mediterranea, **Cherbonnier (1)** p. 9.

†*Antedon semiglobosus* and *essenensis* both of Schlüter, 1878, *A. rugosa*, *perforata*, *lundgreni* and *striata* all of Carpenter, 1880, *A. minutissimus* Valette, 1917 and *chateleti* Valette, 1932 all synonyms of *Glenotremites paradoxus* p. 284, *A. incurva* Carpenter, 1880 a synonym of *G. rotundus* pp. 295, 297, *A. arnaudi* Loriol, 1894 a synonym of *Loriolometra retzii* p. 302, *A. astellatus* Lehner, 1937 ? a synonym of *Semiometra impressa* p. 309, *A. cava* Nielsen, 1913 a synonym of *Hertha mystica* p. 346, *A. stevensis* Nielsen, 1913 indeterminable p. 250, *A. constellatus* Lehner, 1934 a nomen nudum, p. 18, **Rasmussen.**

†*Anulocrinus* **gen. nov.** p. 8 family Calceocrinidae for type *A. thraivensis* **sp. nov.** pp. 8–9 fig. 7 pl. ii figs. 1–8, *A. drummuckensis* **sp. nov.** pp. 9–10 pl. ii figs. 9, 10, both Ordovician Ayrshire, Scotland, **Ramsbottom.**

†Apiocrinidae, **Rasmussen** p. 156.

†*Apiocrinites* with a key to the Cretaceous species pp. 156–157, *A. gillieroni* p. 157 pl. xxii figs. 9, 10, *neocomiensis* pp. 157–159 pl. xxii figs. 1–3, *A.* aff. *neocomiensis* p. 159 pl. xxii fig. 4, *oosteri* pp. 159–160 pl. xxii figs. 7, 8, *renevieri* pp. 160–161 pl. xxii figs. 5, 6, *valangiensis* p. 161 pl. xxii figs. 11, 12, *A.* ? *boissieri* p. 162 pl. xxiii fig. 2, *A.* ? sp. p. 162 pl. xxiii fig. 1, *A. conicum* Roemer, 1840 ' a mistake for the coral *Anthophyllum conicum*', p. 18, **Rasmussen.**

†*Apiocrinus polycyphus*, **Poljak** p. 311; *A. cretaceus* Fraas, 1878 ' must be regarded as a nomen nudum,' **Rasmussen** p. 155.

†*Archaeocrinus* p. 23 with *A. elevatus* **sp. nov.** Ordovician Ayrshire, Scotland pp. 23–24 fig. 11 pl. viii figs. 1–4, **Ramsbottom.**

†*Ataxiocrinus* **gen. nov.** pp. 89–90 family Ethelocrinidae for type *A. multiramus* **sp. nov.** Carboniferous Oklahoma, U.S. pp. 90–92 pl. v figs. 1–3, pl. x figs. 1–3, also including *Mooreocrinus meadowensis*, *Dicromyocrinus optimus* and *D. periodus* p. 90, **Strimple (10).**

†*Austinocrinus* p. 241 with *A. erckerti* p. 242 fig. 39 pl. i figs. 9–12, *meyni* p. 242 fig. 40 pl. i figs. 15, 16, *radiatus* pp. 241–242 fig. 38 pl. i figs. 13, 14, *rothpletzi* p. 241 fig. 37 pl. i figs. 7, 8, **Moskvin**; *Austinocrinus* pp. 26–29 diagnosed with key to the Cretaceous species, *A. bicoronatus* pp. 29–31 pl. i figs. 1–9, *cubensis* pp. 32–33 pl. ii fig. 10, *erckerti* pp. 33–36 pl. iii figs. 1–7, *mexicanus* pp. 37–38 pl. iii figs. 8–10, *rothpletzi* pp. 38–41 pl. ii figs. 1–9, *solignaci* pp. 41–43 pl. iii figs. 11–13; *A. komoroffi* Loriol, 1889 and *radiatus* Anthula, 1899 synonyms of *A. erckerti* p. 36, *A. meyni* and *zilteli* both of Stolley, 1892 synonyms of *A. rothpletzi* p. 38, **Rasmussen.**

†*Balacrinus* **nom. nov.** for *Coelocrinus* Salter, 1866 *non* Meek and Worthen, 1865, type species *Glyptocrinus basalis* M'Coy, **Ramsbottom** pp. 24–25, *B. basalis* pp. 25–26 pl. vii figs. 1–7.

†*Balanocrinus tibiensis*, **Bataller (6)** p. 45 fig.; *Balanocrinus* pp. 82–83 with key to the Cretaceous species, *B. gillieroni* pp. 83–84 pl. ix fig. 3, *infrasilvensis* p. 84 pl. ix fig. 2, *B.* ? *senonensis* p. 85 pl. ix fig. 4, *B.* ? *valettei* pp. 86–87 pl. ix fig. 1, **Rasmussen**; *B. subteres*, **Selli** p. 29 pl. ii fig. 8.

Bathycrinidae with key to the genera, **Rasmussen** p. 200.

†*Bathycrinus* (fossil and recent) p. 201 with *B. windi* **sp. nov.** Cretaceous Denmark pp. 201–203 pl. xxxi figs. 17–24, **Rasmussen.**

†*Blothocrinus thorntonensis*, **Wright** p. 331 pl. B fig. 2.

†Bourgueticrinidae, **Rasmussen** p. 165.

Bourgueticrinina with key to the families, **Rasmussen** p. 165.

†*Bourgueticrinus* with key to the species pp. 165–170, *B. brydonei* Cretaceous England, Germany and Denmark pp. 174–175 pl. xxviii figs. 1–6, *globularis* Cretaceous Germany pp. 187–188 pl. xxv fig. 3, *tenuis* Cretaceous Denmark pp. 197–198 pl. xxix figs. 16–18, **spp. nov.**, *B. aequalis* pp. 170–171 pl. xxviii figs. 11–14, *alabamensis* pp. 171–172 pl. xxix fig. 19, *bruennichinielseni* pp. 172–173 pl. xxx figs. 9–19, *constrictus* pp. 175–177 pl. xxix figs. 1–7, *cylindricus* pp. 177–178 pl. xxvii figs. 9–11, *danicus* pp. 178–180 pl. xxx figs. 1–8, *elegans* pp. 180–182 pl. xxvi figs. 1–7, *ellipticus* pp. 182–184 pl. xxiv figs. 11–16, pl. lx fig. 2, *fischeri* pp. 185–186 pl. xxvii figs. 12–14, *fritillus* pp. 186–187 pl. xxv figs. 1, 2, *granulosus* pp. 188–189 pl. xxviii figs. 15–18, *hagenowii* pp. 190–191 pl. xxix figs. 8–15, *hureae* pp. 191–193 pl. xxviii figs. 7–10, *maximus* pp. 193–194 pl. xxvii figs. 15–19, *papilliformis* pp. 194–196 pl. xxvi figs. 8–12, *suedicus* pp. 196–197 pl. xxvii figs. 1–8, *utriculatus* pp. 199–200 pl. xxv figs. 4, 5, *B. oosteri* Loriol, 1871 indeterminable p. 168, *curvatus* Nielsen, 1913 a synonym of *danicus* pp. 178, 180, *bacillus* Griffith and Brydone, 1911 a synonym of *elegans* pp. 180, 182, *milleri* M'Coy, 1848 a synonym of *ellipticus* p. 183, *verrucosus*, *bulbiformis* and *turris* all of Nielsen, 1913 synonyms of *hagenowii* pp. 190, 191, **Rasmussen**; *Bourgueticrinus* with *B. ellipticus*, **Moskvin** p. 239 pl. i figs. 5, 6 text-fig. 34.

†*Bronaughocrinus cherokeensis* **sp. nov.** Carboniferous Oklahoma, U.S., **Strimple (6)** pp. 186–188 pl. i figs. 1–3; *B. figuratus*, **Strimple (3)** pp. 24–25 figs. 2, 3.

†*Bruennichometra* **gen. nov.** order Comatulida for type *Antedon danica* Nielsen, 1913 with key to the species p. 339, *B. danica* pp. 339–341 pl. l figs. 1–3, *granulata* pp. 341–343 pl. l figs. 5, 6, *parvicava* pp. 343–344 pl. l fig. 4, **Rasmussen.**

†*Burdigalocrinus* with key to the Cretaceous species p. 213, *B. algarbiensis* pp. 213–214 pl. xxxv figs. 11, 12, *heberti* p. 214 possibly from Upper Jurassic beds, **Rasmussen.**

†*Caleidocrinus* p. 6 with *C. turgidulus* **sp. nov.** Ordovician Wales pp. 6–7 pl. i figs. 1, 2, **Ramsbottom.**

†*Camptocrinus* ? sp. see *Dichocrinus.*

Comanthus pinguis, **Sieverts-Doreck (1)** fig. 4.

†*Comatula tetensi* Wegner, 1913 a synonym of *Glenotremites paradoxus*, **Rasmussen** p. 284.

Comatulida (fossil and recent) with key to the Cretaceous genera, **Rasmussen** pp. 249–252.

†*Comatulina* Orbigny, 1852 a subgenus of *Solanocrinites*, **Rasmussen** pp. 252, 253.

†*Conocrinus lamberti* and *welschi* both of Valette, 1917 are indeterminable species of *Bourgueticrinus*, **Rasmussen** p. 168.

Coronata a separate order of the Crinoidea, **Fay (2)** p. 259.

†*Corythocrinus* **gen. nov.** pp. 128–129 family Eriocrinidae for type *C. undulatus* **sp. nov.** Carboniferous Oklahoma, U.S. pp. 129–130 pl. xiii figs. 3–6, also including *Delocrinus parinodosarius*, *Endelocrinus bifidus* and *rectus* p. 129, **Strimple (10).**

†Cromyocrinidae with list of included genera, **Strimple (10)** pp. 63–65.

†*Cromyocrinus* with list of species, pp. 65–66, *C. globosus* and *papillatus* (with synonym *hemisphericus*) referred to *Agassizocrinus*, *C. geminatus* and *ornatus* to *Dicromyocrinus*, *C. buttsi* made the type of new genus *Ulocrinus* to which *sangamonensis* and *kansasensis* are also referred, *C. gracilis* to *Pentaramicrinus* and *C. nuciformis* referred to synonymy of *Ureocrinus bockschii*, **Strimple (10).**

†*Crotalocrinites* p. 7 with *C.* sp. p. 7 pl. v figs. 11–13, **Yeltyschewa (2).**

†*Cryphiocrinus* pp. 67–68 with *C. bowsheri* p. 68, **Strimple (10).**

†*Cupulocrinus* p. 12 with *C. gracilis* p. 13 pl. v figs. 6, 7, *heterobrachialis* pp. 12–13 pl. v figs. 1–5, both Ordovician Ayrshire, Scotland, *sepulchrum* p. 14 pl. iv figs. 8, 9 Ordovician Montgomeryshire, Wales, **spp. nov., Ramsbottom.**

†*Cyathidium* with key to the Cretaceous species pp. 238–239, *C. depressum* pp. 239–241 pl. xxxiv figs. 1–4, *holopus* pp. 242–246 pl. xxxv figs. 1–10, *senessei* pp. 246–248 pl. xxxiv figs. 5–7, **Rasmussen.**

†*Cyathocrinus somersi* referred to *Graffhamicrinus*, **Strimple (10)** p. 124.

†Cyclocrinidae, **Rasmussen** p. 162.

†*Cyclocrinus* with key to the Cretaceous species p. 163, *C.* cfr. *dumortieri* pp. 163–164 pl. xxiii figs. 8, 9, *variolaris* pp. 164–165 pl. xxiii figs. 6, 7, **Rasmussen.**

†*Cyclocyclicus* p. 23 with *C. scalariformis* pp. 24–25 pl. iv figs. 5–7, *sibiricus* p. 24 pl. iv figs. 6, 7, **spp. nov.** Silurian Siberia, *C. tenuis* p. 23 pl. vi figs. 1–4, **Yeltyschewa (2).**

†Cyrtocrinida (fossil and recent) with key to the Cretaceous families and genera pp. 215–216, **Rasmussen,**

†*Cyrtocrinus granulatus* Jaekel, 1891 a synonym of *Hemicrinus astierianus*, **Rasmussen** p. 235.

†*Decameros* Orbigny, 1850 a subgenus of *Solanocrinites*, **Rasmussen** pp. 252, 253.

†*Delocrinus* diagnosed, **Strimple** (1) p. 152, *D. verus* fig. 2F; *Delocrinus*, many species referred to new genus *Graffhamicrinus* (q.v.) pp. 123–124, *D. parinodosarius* to *Corythocrinus* p. 129, **Strimple** (10).

†*Democrinus* (fossil and recent) with key to the Cretaceous species pp. 204–205, *D. gisleni* **sp. nov.** Cretaceous Denmark, Germany and Sweden pp. 206–207 pl. xxxi fig. 9, *dubius* pp. 205–206 pl. xxxi fig. 10, *maximus* pp. 207–209 pl. xxxi figs. 1–8, **Rasmussen.**

†*Dendrocrinus granditubus* Ordovician Ayrshire, Scotland p. 15 pl. iv figs. 1–7, *rugocyathus* Ordovician Pembrokeshire, Wales p. 16 pl. iii figs. 1–5, **spp. nov., Ramsbottom.**

†*Diabolocrinus* p. 26 with *D. craigheadensis* **sp. nov.** Ordovician Ayrshire, Scotland p. 27 pl. viii figs. 5–9, *D. globularis* p. 28 pl. viii figs. 10–20, *D.* spp. p. 29, **Ramsbottom.**

†*Dialutocrinus* ? sp., **Wright** p. 334 pl. A fig. 11.

†*Dichocrinus* cf. *fusiformis*, **Wright** p. 334 pl. A fig. 4, *D.* or *Camptocrinus* ? sp. p. 334 pl. A fig. 3.

†*Dicromyocrinus* with list of species, pp. 66–67, *D. papillatus* (with synonym *hemisphericus*) referred to genus *Agassizocrinus*, *D. bowsheri* to *Cryphiocrinus*, *D. optimus*, *periodus* and *meadowensis* to *Ataxiacrinus*, **Strimple** (10).

†*Discocrinus* with key to the species p. 387, *D. catastomus* pp. 387–388 pl. lvi fig. 7, *wrighti* pp. 388–389 pl. lvi fig. 8, **Rasmussen.**

†*Discometra eggenburgensis* sensu lato pp. 109–117, sensu stricto pp. 117–118, compared with *Himerometra bassleri* p. 119, *eggenburgensis* f. *excavata* p. 118 fig. 3, *D. rhodanica* p. 118 fig. 2, *D.* sp. pp. 120–123, *Discometra* referred to family Himerometridae rather than Palaeoantedonidae pp. 123–125, **Sieverts-Doreck** (1).

†*Doreckicrinus* **gen. nov.** family Isocrinidae, for type *Pentacrinus miliaris* Nielsen, 1913 pp. 75–76 with key to the species, *D. italicus* Cretaceous Italy pp. 78–79 pl. viii figs. 1, 2, *limburgicus* Cretaceous Netherlands pp. 79–80 pl. viii fig. 5, **spp. nov.**, *D. convexus* pp. 76–77 pl. viii figs. 3, 4, *miliaris* pp. 80–82 pl. viii figs. 6–13, **Rasmussen.**

†*Drepanocrinus* Jaekel, 1918 a synonym of *Roveacrinus* p. 363, *D. sessilis* Jaekel, 1918 a synonym of *R. communis* p. 367, **Rasmussen.**

†*Elibatocrinus* p. 131 with list of species including *E. hoodi* **sp. nov.** Carboniferous Oklahoma, U.S. pp. 132–135 text-fig. 23 pl. xvi figs. 4, 5, **Strimple** (10).

†*Encrinites biforcatus* Schlotheim, 1832 a nomen nudum, **Rasmussen** p. 18.

†*Encrinus* sp. aff. *cassianus* pp. 166–167 pl. xxii figs. 2, 4, *E.* sp. 1 cf. *cassianus* p. 168 pl. xxii fig. 5, sp. 2 cf. *cassianus* p. 168 pl. xxii fig. 6, sp. 3 cf. *cassianus* p. 168 pl. xxii fig. 7, *E.* cf. *granulosus* p. 166 pl. xxii fig. 1, **Sieverts-Doreck** (2); *E. cassianus* p. 222 fig. 6, *E.* cf. *varians* p. 224 fig. 7, **Virgili & Julivert.**

†*Endelocrinus* diagnosed p. 152, *E. matheri* pp. 151–152, fig. 1, fig. 2A, *petalosus* fig. 2I, **Strimple** (1); *E. bifidus* and *rectus* referred to new genus *Corythocrinus*, **Strimple** (10) p. 129.

†*Entrochus* sp. 1 p. 169 pl. xxii fig. 8, sp. 2 p. 169 pl. xxii fig. 9, sp. 3 pp. 169–170 pl. xxii fig. 10, sp. 4 p. 170 pl. xxii fig. 11, **Sieverts-Doreck** (2); *E. granulosus*, **Virgili & Julivert** pp. 224–225 fig. 8.

†Erisocrinidae, **Strimple** (10) pp. 122–123.

†*Erisocrinus* diagnosed, **Strimple** (1) pp. 152–153, *E. typus* fig. 2D.

†Ethelocrinidae fam. nov. order Inadunata for genera *Ethelocrinus*, *Intermediacrinus*, *Parethelocrinus*, *Aglaocrinus* and *Ataxiacrinus*, **Strimple** (10) pp. 77–79.

†*Ethelocrinus* pp. 79–81, *E. oklahomensis* and *sphaeri* referred to *Metacromyocrinus* p. 69, *E. varibilis* (sic), *plattsburgensis*, *millsapensis* and *watkinsi* to *Parethelocrinus* p. 82, *E. magnus* (with synonym *peridous*) made the type of new genus *Aglaocrinus* to which are also referred *E. iatani* and *expansus*, **Strimple** (10).

†*Eucalyptocrinites inchoatus* **sp. nov.** Devonian Victoria, Australia, **Philip** pp. 150–157 text-figs. 4–9 pl. viii figs. 3, 4, 9.

†Eugeniacrinidae with key to the Cretaceous genera, **Rasmussen** p. 221.

†*Eugeniacrinites* with key to the Cretaceous species p. 221, *E. bernensis* p. 222 pl. xxxii fig. 7, *cariophyllites* p. 223 pl. xxxii fig. 8, *dyonisii* pp. 223–224 pl. xxxii fig. 10, *gevreysi* pp. 224–225 pl. xxxii fig. 9, *taramelli* pp. 225–226 pl. xxxii fig. 11, *E. quinquangularis* Miller, 1821 and *caryophyllatus* Goldfuss, 1829 both synonyms of *cariophyllites* p. 223, *E.* ? *fischeri* p. 216 pl. xxxii fig. 1, *E.* ? sp. p. 216 pl. xxxii fig. 2, **Rasmussen**; *E. bernensis*, **Selli** pp. 31–32 pl. ii fig. 15.

†*Eugeniacrinus cupuliformis* Remeš, 1902 a synonym of *Proholopus holopiformis*, **Rasmussen** p. 220.

†*Eupachycrinus* (?) *donetzensis* **sp. nov.** Carboniferous U.S.S.R., **Yakovlev** p. 418 figs. 8, 9.

†*Euryocrinus rofei*, **Wright** p. 333 pl. B figs. 5, 6.

†*Glenotremites* with key to the Cretaceous species pp. 277–280, *G. aequimarginatus* pp. 280–281 pl. xli fig. 1, *carentonensis* pp. 281–282 pl. xli fig. 2, *discoidalis* pp. 282–283 pl. xli figs. 3, 4, *paradoxus* pp. 284–295 pls. xxxix figs. 1–8, pl. xl figs. 1, 2, *rotundus* pp. 295–298 pl. xlii figs. 1, 2, *schlueterianus* pp. 298–299 pl. xlii fig. 3, *tourtiae* p. 299 pl. xlii fig. 4, *valettei* pp. 300–301 pl. xlii fig. 5, *G. batheri* Gislén, 1924, *adregularis*, *alternatus*, *essenensis* var. *tuberculatus*, *excavatus*, *intermedius* and *parvistellatus* all of Gislén, 1925, synonyms of *G. paradoxus* p. 284, **Rasmussen.**

†*Graffhamicrinus* **gen. nov.** pp. 123–124 family Erisocrinidae for type *G. acutus* **sp. nov.** Carboniferous Oklahoma, U.S. pp. 124–127 text-figs. 22a, b, pl. x figs. 4–8, pl. xii figs. 4–6, pl. xiii fig. 7, pl. xv fig. 6, pl. xix fig. 2, *acutus spicatus* **subsp. nov.** pp. 127–128 pl. xvii figs. 1–3, also including *Delocrinus granulosus*, *wolforum*, *bispinosus*, *bullatus*, *nodasarius*, *aristatus*, *armatura*, *subcoronatus*, *waughi*, *stullensis*, *magnifus*, *paucinodus*, *papulosus*, *pictus*, *graphicus* and *Cyathocrinus somersi* pp. 123–124, **Strimple** (10).

†*Haeretocrinus* p. 97 with *H. intermedius* **sp. nov.** Carboniferous Oklahoma, U.S., **Strimple** (10) pp. 97–99 pl. xv figs. 1–3.

†*Hapalocrinus*, **Seilacher** (2) cover picture, fig. 1.

†Hemicrinidae fam. nov. of Order Cyrtocrinida for genus *Hemicrinus* only, **Rasmussen** p. 233.

†*Hemicrinus* with key to the Cretaceous species pp. 233–234, *H. astierianus* pp. 235–237 pl. xxxiii fig. 9, *canon* pp. 237–238 pl. xxxiii figs. 7, 8, **Rasmussen.**

†*Hertha* with key to the species p. 345, *H. mystica* pp. 345–348 pl. li figs. 1–3, *plana* pp. 348–350 pl. li figs. 6–8,

pygmea pp. 350–351 pl. li figs. 4, 5, *H. cava* (Nielsen) 1913 and *suecica* Gislén, 1924 both synonyms of *H. mystica* p. 346, **Rasmussen.**

†Heterocrinidae, **Ramsbottom** p. 10.

†*Hexacrinites* (?) sp., Devonian Victoria, Australia, **Philip** pp. 157–158 text-fig. 10, pl. viii figs. 5–7.

Himerometra martensi, **Sieverts-Doreck** (1) fig. 1.

†*Himerometra bassleri*, **Sieverts-Doreck** (1) pp. 119–120.

†Holopodidae, **Rasmussen** p. 238.

†*Hoplocrinus grewingki*, **Kaljo** fig. 21.

†*Hydreionocrinus parkinsoni*, **Wright** pp. 331–332 pl. A figs. 5, 6.

†*Hydrocrinus* ? *rosei*, **Strimple** (9) pp. 306–307.

†*Idosocrinus bispinosus* p. 332 pl. B fig. 1, *tumidus* pp. 332–333 pl. B fig. 7, **Wright.**

Ilycrinus Danielssen & Koren, 1877 a synonym of *Bathycrinus*, **Rasmussen** p. 201.

†*Intermediacrinus* with *I. modernus* referred from *Eupachycrinus*, **Strimple** (10) p. 81.

†*Iocrinus* p. 3 with *I. shelvensis* Shropshire England pp. 3–4 pl. i figs. 3–8, *whitteryi* Montgomeryshire Wales p. 5 pl. i fig. 9, both Ordovician, **spp. nov.**, *I.* ? *cambriensis* pp. 5–6 pl. iii figs. 9–11, **Ramsbottom.**

Isocrinida, **Rasmussen** p. 19.

Isocrinidae, with key to Cretaceous genera, pp. 19–21, key to Cretaceous species pp. 21–26, **Rasmussen.**

Isocrinina, **Rasmussen** p. 19.

†*Isocrinus* ?, **Avnimelech** (1) p. 4; *Isocrinus* (fossil and recent) p. 87, with *I. annulatus* pp. 88–89 pl. ix figs. 5–10; *I. parvus* Howchin, 1921 ' insufficiently known for determination ' p. 19, *holsaticus* Jaekel, 1904 a synonym of *Austinocrinus rothpletzi*, **Rasmussen.**

†" *Isocrinus* ? " p. 110 with *I.* ? *brotzeni* Cretaceous Sweden pp. 113–114 pl. xviii figs. 12a–c, *echinatus* Cretaceous Denmark pp. 125–126 pl. xv figs. 1–4, **spp. nov.**, *I.* ? *arduennensis* pp. 110–112 pl. xvi figs. 4, 5, *arzierensis* pp. 112–113 pl. xix figs. 8–10, *campanularis* pp. 114–115 pl. xiv figs. 12, 13, *carinatus* (with synonyms *icuanensis* and *courvillensis* Valette, 1917) pp. 115–118 pl. xx figs. 3–8, *cenomanensis* (with synonym *neuvillensis* Valette, 1917) pp. 118–120 pl. xvii figs. 4–8, *dentatogranulatus* pp. 120–121 pl. xv figs. 5, 6, *diegonensis* pp. 121–122 pl. xxi figs. 3, 4, *divergens* pp. 122–124 pl. xv figs. 18–21, *doliolum* pp. 124–125 pl. xix figs. 6, 7, *I.* ? aff. *fionicus* pp. 126–127 pl. xiv fig. 15, *florifer* p. 127 pl. xxi fig. 7, *gevreyi* pp. 127–129 pl. xix figs. 1, 2, *gocevi* pp. 129–130 pl. xxi figs. 1, 2, *granosus* (with synonyms *hureae* and *epensensis* Valette, 1917 and *forbesi* Biese, 1930) pp. 130–133 pl. xvi figs. 6–12, pl. lx fig. 1, *lanceolatus* pp. 133–134 pl. xix figs. 3–5, *legeri* (with synonym *askerensis* Valette, 1926) pp. 135–136 pl. xviii figs. 7–11, *lissajouxi* pp. 137–138 pl. xviii fig. 1, *longus* pp. 138–139 pl. xiv fig. 14, *mallevalensis* pp. 139–141 pl. xvii figs. 1–3, *minutus* pp. 141–143 pl. xv figs. 7–17, *neocomiensis* pp. 143–145 pl. xviii figs. 4–5, *nodulosus* (with synonyms *sancti-paterni* and *affinis* Valette, 1917) pp. 145–147 pl. xx figs. 1, 2, *perlatus* p. 148 pl. xvi figs. 2, 3, *peyroulensis* (with possible synonym *demdyi* Valette, 1928) pp. 148–150 pl. xviii figs. 2, 3, *sublaevigatus* pp. 150–151 pl. xix figs. 11, 12, *thiessingi* p. 152 pl. xvi fig. 1, *zeltbergensis* p. 153 pl. xviii fig. 6; " *I.*" *campanularis* ' possibly equals ' *Doreckicrinus convexus* p. 76, *nodulosus* ' perhaps equals ' *Nielsenicrinus crassitabulatus* p. 98, **Rasmussen.**

†*Isselicrinus* pp. 43–47 with key to the Cretaceous species, *I. groenlandicus* **sp. nov.** Cretaceous Greenland pp. 58–61 pl. vi figs. 1–5, *africanus* pp. 47–49 pl. vii figs. 18–20, *I.* ? *bryani* p. 49 pl. vi fig. 6, *buchii* pp. 50–55 pl. iv figs. 1–15, *daniensis* pp. 56–57 pl. vii figs. 16–17, *dixoni* pp. 57–58 pl. vi figs. 9–10, *paucicirrhus* pp. 61–68 pl. v figs. 1–14, *peroni* pp. 68–70 pl. vi figs. 7, 8, *stelliferus* pp. 70–74 pl. vii figs. 1–15, *tibiensis* pp. 74–75 pl. xiii fig. 13, **Rasmussen.**

†*Jaekelometra* with key to the species pp. 320–321, *J. gisleni* Cretaceous Sweden pp. 325–326 pl. xlvii fig. 10, *meijeri* Cretaceous Belgium pp. 326–327 pl. xlvii fig. 7, **spp. nov.**, *J. belgica* pp. 321–322 pl. xlvii fig. 6, *columnaris* pp. 322–323 pl. xlvii figs. 1–5, *concava* p. 324 pl. xlvii fig. 9, *faxensis* pp. 324–325 pl. xlvii fig. 8, **Rasmussen.**

Leptometra phalangium, **Cherbonnier** (1) p. 10.

†*Lipocrinus* Rasmussen, 1953 a synonym of *Isselicrinus* Rovereto, 1914, **Rasmussen** p. 44.

†*Lombardia* Bronnimann, 1955 a synonym of *Saccocoma*, **Rasmussen** p. 390.

†*Loriolometra* p. 301, with *L. retzii* pp. 302–304 pl. xliii figs. 1–3, **Rasmussen** p. 302.

†*Macrostylocrinus cirrifer* **sp. nov.** Ordovician Ayrshire, Scotland, **Ramsbottom** pp. 20–21 pl. vi figs. 6–13.

†*Malaiocrinus azygous* referred to *Schistocrinus*, **Strimple** (10) p. 100.

†*Mantikosocrinus castus*, **Strimple** (3) pp. 23–24 fig. 1.

†*Marsupites testudinarius*, **Moskvin** pp. 239–240 text-fig. 35 pl. i figs. 1–3; *Marsupites* pp. 395–396, with *M. testudinarius* pp. 396–400 pl. lix figs. 11–17, *M. ornatus* Miller, 1821, *milleri* Mantell, 1822, *mantelli* Bronn, 1848, *americanus* Springer, 1911 and *lamberti* Besairie, 1936 all synonyms of *testudinarius* p. 396, **Rasmussen.**

†Marsupitidae, **Rasmussen** p. 395.

†*Merocrinus salopiae*, **Ramsbottom** p. 11 pl. iii fig. 6.

†*Mesocrinus* Carpenter, 1881 a synonym of *Bourgueticrinus*, **Rasmussen** pp. 165, 166.

†*Metacromyocrinus* **gen. nov.** pp. 68–69 family Cromyocrinidae for type *M. holdenvillensis* **sp. nov.** Carboniferous Oklahoma, U.S. pp. 69–73 text-figs. 16–18, pl. vi figs. 1–3, also including *Ethelocrinus oklahomensis* and *sphaeri* and *Parulocrinus marquisi* p. 69, **Strimple** (10).

†*Metaperimestocrinus* **gen. nov.** pp. 36–37, family Pirasocrinidae for type *M. spiniferus* **sp. nov.** Carboniferous Oklahoma pp. 37–39 text-fig. 13a, b, pl. iv figs. 3–7, pl. xviii fig. 5, **Strimple** (10).

†*Metapiocrinus* Jaekel, 1918 a synonym of *Bourgueticrinus*, pp. 165, 166, *M. minutus* Jaekel ' a young specimen of a *Bourgueticrinus*, not determinable as to species ' p. 168, **Rasmussen.**

†*Micropocrinus* Michelin, 1851 a synonym of *Cyathidium*, **Rasmussen** pp. 238, 239.

Millericrinida with key to the suborders, **Rasmussen** p. 154.

Millericrinidae, **Rasmussen** p. 156.

Millericrinina with key to the Cretaceous families, **Rasmussen** pp. 154–155.

†*Millericrinus* sp., **Selli** p. 29.

†*Monachocrinus* (fossil and recent) with key to the Cretaceous species p. 209, *M.*? *gallicus* Cretaceous France pp. 209–210 pl. xxxi fig. 11, *M.*? *regnelli* Cretaceous Sweden, Denmark and France pp. 210–211 pl. xxxi figs. 12–15, **spp. nov.**, *M.*? aff. *regnelli* p. 211 pl. xxxi fig. 16, **Rasmussen.**

†*Mooreocrinus meadowensis* referred to *Ataxiacrinus*, **Strimple** (10) p. 90.

Myeinocystites natus, **Strimple (5)** p. 184 fig. 1.

†*Myelodactylus* p. 5 with *M.* cf. *convolutus* pp. 5–6 pl. v figs. 9, 10, *M.* sp. p. 6 pl. v fig. 8, **Yeltyschewa (2).**

†*Neocrinus* (fossil and recent) pp. 89–90 with key to the Cretaceous species, *N. australis* pp. 90–91 pl. x figs. 13–15, *australis albascopularis* p. 91 pl. x fig. 12, *tenellus* pp. 92–94 pl. x figs. 1–11, **Rasmussen.**

†*Neozeacrinus*, **Strimple (10)** pp. 112–114, *N. praecursor* referred to *Anobasicrinus.*

†*Nielsenicrinus* **gen. nov.** family Isocrinidae, for type *Pentacrinus obsoletus* Nielsen, 1913 p. 94, *N. rosenkrantzi* **sp. nov.** Cretaceous Denmark pp. 108–110 pl. xi figs. 11–16, *agassizii* pp. 94–97 pl. xi figs. 1–10, *chavannesi* pp. 97–98 pl. xii figs. 1–3, *crassitabulatus* pp. 98–100 and 145 pl. xii fig. 4, *cretaceus* pp. 100–102 pl. xii figs. 5–7, *fionicus* pp. 103–105 pl. xiv figs. 1–11, *obsoletus* pp. 106–108 pl. xiii figs. 1–12, **Rasmussen.**

†*Nucleocrinus elegans* redescription of holotype, **Fay (1)** pp. 236–239 fig. 1 pl. i.

†*Oklahomacrinus* with list of species pp. 106–107, *O. abruptus* pp. 107–108 pl. xiii figs. 1, 2, **Strimple (10).**

†*Ophiurocrinus goweresis* **sp. nov.** Carboniferous Glamorgan, Wales p. 329 pl. A figs. 7, 8, *O.* cf. *dactyloides*, Eire pp. 329–330 pl. A fig. 13, **Wright.**

†*Orthogonocrinus* with key to the species p. 385, *O. apertus* pp. 385–386 pl. lvi figs. 4, 5, *janeti* pp. 386–387 pl. lvi fig. 6, **Rasmussen.**

†*Pachecocrinus joaquinensis* Anderson, 1958 ' of unknown affinity,' **Rasmussen** p. 18.

†*Pachyantedon* with *P. beyrichi* Jaekel, 1891 better regarded as indeterminable, **Rasmussen** p. 250.

†*Pachylocrinus uddeni* referred to *Texacrinus*, **Strimple (10)** p. 94.

†*Paianocrinus aptus*, **Strimple (10)** p. 22 pl. iii figs. 4, 5 text-fig. 6.

†*Palaeantedon danica* (Nielsen), 1913 made the type of the new genus *Bruennichometra*, **Rasmussen** p. 339.

†*Palaeocomaster* with key to the Cretaceous species p. 356, *P. angelini* pp. 356–357 pl. lii fig. 2, *loveni* pp. 357–358 pl. lii fig. 1, **Rasmussen.**

†*Pandoracrinus mincopensis* **sp. nov.** Ordovician Montgomeryshire, Wales, **Ramsbottom** p. 18 pl. iii fig. 7.

†*Paradelocrinus atoka* pp. 228–229 pl. i figs. 1–3, 13–15, *johnstonensis* pp. 226–228 pl. i figs. 4–6, 10–12, *wapanucka* pp. 225–226 pl. i figs. 7–9, **spp. nov.** Carboniferous Oklahoma, U.S., **Strimple (7)**; *Paradelocrinus* diagnosed, **Strimple (1)** p. 152, *P. aequabilis* fig. 2B, *protensus* fig. 2C, *dubius* fig. 2H; *P.* sp., **Frederickson & Waddell** pp. 172–174 pl. i.

†*Paragassizocrinus* p. 294 with *P. bulbosus* p. 296 pl. i figs. 7–10, *elevatus* p. 297 pl. i figs. 1–6, *ellipticus* p. 297 pl. i figs. 11–13, **spp. nov.** Carboniferous Oklahoma, U.S., *P. disculus* p. 296, *mcguirei* pp. 294–296, **Strimple (8).**

†*Parapisocrinus* **subgen. nov.** of genus *Pisocrinus* for species *Pisocrinus ollula, quinquelobus, sphericus, tennesseensis, lobata* and *yassensis*, **Mu (1)** pp. 326, 331.

†*Parethelocrinus* **gen. nov.** pp. 81–82 family Ethelocrinidae for type *P. ellipticus* **sp. nov.** Carboniferous Oklahoma, U.S. pp. 83–85 pl. viii figs. 4, 5, pl. xviii figs. 1, 2, pl. xix fig. 5, also including *Ethelocrinus varibilis* (sic), *plattsburgensis, millsapensis* and *watkinsi* and *Parulocrinus beedei*, **Strimple (10).**

†*Parisocrinus*, **Seilacher (2)** cover picture, fig. 1.

†*Parulocrinus beedei* referred to *Parethelocrinus* p. 82, *P. compactus* and *pustulosus* to *Aglaocrinus* p. 86, **Strimple (10).**

†*Pentacrinites Bronnii* Hagenow, 1840 a synonym of *Isselicrinus buchii* p. 50, *P. klodenii* Hagenow, 1840 a synonym of *Nielsenicrinus agassizii* p. 95, **Rasmussen.**

†*Pentacrinus shahuensis* **sp. nov.** Jurassic China p. 149 pl. ii fig. 5, *P. subangularis* p. 149 pl. ii fig. 6, **Shao *in* Sun, Chan & Shao**; *P. bajocensis*, **Mihailović** pp. 205–206 pl. i fig. 1; *P. ambiguus* Eichwald, 1868 is ' perhaps a fragment of an echinoid spine ' p. 17, *exilis* Eichwald, 1868 ' insufficiently known for determination ' p. 19, *stellatus* Hutton, 1873 and *tehamensis* Clark, 1915 ' insufficiently known ' p. 20, *tschani* Ooster, 1865 ' not a crinoid but a serpulid ' p. 17, *P. sulcifer* Eichwald, 1871 ? a synonym of *Austinocrinus erckerti* pp. 33, 36, *P. rejstrupianus* and *kagstrupianus* both of Nielsen, 1913 synonyms of *Isselicrinus paucicirrhus* pp. 61, 62, *P. obsoletus* Nielsen, 1913 the type of new genus *Nielsenicrinus* p. 94, *P. fittoni* Austin, 1845 a synonym of *Nielsenicrinus cretaceus* p. 101, *P. lamberti* Valette, 1917 a synonym of *Isocrinus* ? *nodulosus* p. 145, *P. blakei* maintained in the genus *Isocrinus* p. 87, **Rasmussen.**

†" *Pentacrinus* " *fairbanksi*, **Rasmussen** p. 19 pl. xxi fig. 5.

†*Pentagonocyclicus* p. 17 with *P. egiasarowi* p. 22 pl. v figs. 5, 6, *elegans* pp. 20–21 pl. iv figs. 9–12, both Silurian Siberia, *partitus* p. 19 pl. ii figs. 7–9 Ordovician Siberia, **spp. nov.**, *P. altimarginalis* p. 20 pl. iii figs. 12, 13, *borealis* p. 21 pl. iv fig. 8, *monile* p. 18 pl. i figs. 5, 6, *pentaporus* pp. 18–19 pl. i figs. 3, 4, **Yeltyschewa (2).**

†*Pentagonopentagonalis* p. 7 with *P. bilobatus* Silurian Siberia p. 17 pl. v figs. 1–4, *morcocaensis* Ordovician Siberia pp. 9–10 pl. iii figs. 1–5, *papillaris* Silurian Siberia pp. 13–14 pl. v fig. 7, **spp. nov.**, *P. compositus* pp. 10–11 pl. i figs. 1, 2, *comptus* pp. 14–15 pl. iii figs. 6–9, *dentiferus* pp. 16–17 pl. iv figs. 1–5, *dividuus* pp. 15–16 pl. iii figs. 10, 11, *fragilis* p. 9 pl. ii fig. 14, *mirabilis* pp. 7–8 pl. i figs. 7, 8, *multipartitus* pp. 12–13 pl. ii figs. 10, 11, *quinquelobatus* pp. 11–12 pl. ii figs. 1–6, *tridens* pp. 8–9 pl. ii figs. 12, 13, **Yeltyschewa (2).**

†*Perimestocrinus* with list of species including some transferred from *Utharocrinus* or *Triceracrinus* and excluding species with spinose brachials pp. 23–24, *P. planus* made the type of new genus *Stenopecrinus* to which are also referred *P. hexagonus* and *moseleyi*, p. 40, **Strimple (10).**

†*Phacelocrinus rostratus* ? p. 330 pl. A fig. 1, *P.* ? sp. pp. 330–331 pl. A fig. 9, **Wright.**

†Phyllocrinidae, **Rasmussen** p. 227.

†*Phyllocrinus aesontinus* **sp. nov.** Jurassic Italy, pp. 33–34 pl. ii figs. 13, 14, 17, *P. granulatus* pp. 32–33 pl. ii fig. 16, *moeschi* pp. 35–36 pl. ii fig. 12, *oosteri* pp. 34–35 pl. ii figs. 9, 10, **Selli**; *Phyllocrinus* with key to the Cretaceous species pp. 227–228, *P. brassovianus* p. 228 pl. xxxiii fig. 6, *helveticus* pp. 228–229 pl. xxxiii fig. 3, *malbosianus* pp. 229–231 pl. xxxiii figs. 1, 2, *oosteri* pp. 231–232 pl. xxxiii fig. 5, *sabaudianus* pp. 232–233 pl. xxxiii fig. 4, *P. hoheneggeri* Zittel, 1870, *picteti* Loriol, 1879 and *checchiai* Serra, 1933 all synonyms of *malbosianus* pp. 229, 230, *P. renevieri* Hermite, 1888 ' seems to be a nomen nudum, p. 215, **Rasmussen.**

†*Pilocrinus julius* **sp. nov.** Jurassic Italy, **Selli** pp. 30–31 pl. ii fig. 11; *Pilocrinus* p. 226 with *P. moussoni* pp. 226–227 pl. xxxii fig. 6, **Rasmussen.**

†Pirasocrinidae diagnosed with list of genera, **Strimple (10)** pp. 17–21.

†*Pirasocrinus* diagnosed pp. 56–57 with *P. depressus* **sp. nov.** Carboniferous Oklahoma, U.S., pp. 57–59 pl. xiv figs. 1, 2, **Strimple (10).**

†*Pisocrinus* pp. 325, 330 with *P.* (*Parapisocrinus*) **subgen. nov.**, type *Pisocrinus ollula* Angelin, pp. 326, 331, *P.* (*Pisocrinus*) pp. 325, 331, *P.* (*Pisocrinus*) *pilula* var. *yini* var. nov. pp. 326–327, 331–332 pl. i figs. 1–5, **Mu (1).**

†*Placometra* with key to the species p. 352, *P. laticirra* pp. 352–354 pl. lii figs. 3–5, *mortenseni* pp. 354–355 pl. lii fig. 7, *scutata* p. 355 pl. lii fig. 6, **Rasmussen.**

†*Platycrinites* **sp.**, **Wright** p. 334 pl. A fig. 2.

†*Platycrinus* **sp.**, **Yakovlev** pp. 419–420 fig. 10.

†*Plaxocrinus* with list of species pp. 45–47, *P. beggsi* pp. 52–54 text-figs. 13g, h, pl. xii figs. 1–3, *normalis* pp. 48–51 text-fig. 13e, pl. xi figs. 5–7, pl. xv fig. 5, pl. xviii figs. 3, 4, pl. xix figs. 1, 3, *octarius* pp. 54–56 text-fig. 8, pl. iv figs. 1, 2, **spp. nov.** Carboniferous Oklahoma, U.S., *P.* aff. *dornickensis* pp. 51–52 pl. xiv figs. 5, 6, *P.* aff. *obesus* pp. 47–48 text-fig. 13d, pl. xvi fig. 3, pl. xix fig. 4, *P. politus* referred to new genus *Stenopecrinus* p. 40, *P. perundatus* referred to *Schedexocrinus* p. 46, *Hydreionocrinus uddeni* and *kansasensis* referred to *Plaxocrinus* p. 113, **Strimple (10).**

†*Plotocrinus* with key to the species pp. 374–375, *P. hemisphericus* p. 375 pl. liv figs. 12, 13, *inornatus* p. 376 pl. liv figs. 14, 15, *modulatus* pp. 376, 377 pl. liv figs. 16, 17, *porcatus* p. 377 pl. liv fig. 18, *P. primitivus* Peck, 1943 ? a synonym of *Roveacrinus pyramidalis* pp. 371, 372, **Rasmussen.**

†*Plummericrinus erectus* Strimple, 1954 referred to *Anobasicrinus* and renamed *A. perplexus* owing to homonymy with *A.* (formerly *Aesiocrinus*) *erectus* Strimple, 1951, *P. braggsi* and *granulosus* also referred to *Anobasicrinus* p. 115, **Strimple (10).**

†*Poecilocrinus* with key to the species p. 378, *P. dispandus* with key to the subspecies pp. 378–380 pl. lv figs. 7–10, *lutealatus* p. 380 pl. lv figs. 4, 5, *pendulus* pp. 380–381 pl. lv fig. 6, *signatus* pp. 381–382 pl. lv figs. 2, 3, *spiculatus* pp. 382–383 pl. lv fig. 1, **Rasmussen.**

†*Polusocrinus* with list of species pp. 101–102, *P. avanti* pp. 102–103 pl. xvi fig. 1, **Strimple (10).**

†*Polygonocrinus* **gen. nov.** pp. 59–61, family Pirasocrinidae for type *P. multiextensus* **sp. nov.** Carboniferous Oklahoma, U.S. pp. 61–63 pl. ii fig. 6, pl. xi figs. 1, 2, **Strimple (10).**

†*Porocrinus scoticus* **sp. nov.** Ordovician Ayrshire, Scotland, **Ramsbottom** p. 17 pl. v fig. 8.

†*Poteriocrinus minutus* pl. iii fig. 4, *P.* sp. pl. iii fig. 3, **Hernández-Sampelayo**; *P. crassus*, **Kostić-Podgorska** pp. 107–108 pl. xxxiii figs. 3, 5–7.

†*Proholopus* p. 219 with *P. holopiformis* p. 220 pl. xxxii fig. 3, **Rasmussen.**

†*Protaxocrinus girvanensis* **sp. nov.** Ordovician Ayrshire, Scotland, **Ramsbottom** p. 19 pl. vi figs. 14, 15.

†*Pseudoantedon* Valette, 1933 a subgenus of *Solanocrinites* pp. 252, 253–254, *P. icaunensis* a synonym of *Solanocrinites hiselyi* pp. 266–267, **Rasmussen.**

†*Pseudocupressocrinus* Valette, 1934 a synonym of *Cyathidium*, **Rasmussen** pp. 238, 239.

†*Pseudosaccocoma* p. 393 with *P. strambergense* pp. 393–394 pl. lvii fig. 12, **Rasmussen.**

†Pseudosaccocominae, **Rasmussen** p. 372.

†*Pterocoma pinnulata* (Fraas), 1878 'of uncertain affinity,' **Rasmussen** p. 251.

†*Remesimetra* Sieverts-Doreck, 1958 'should perhaps be regarded as a subgenus' of *Glenotremites*, **Rasmussen** p. 278.

†*Roiometra* p. 358, with *R. columbiana* p. 359, **Rasmussen.**

Roveacrinida with key to the families, **Rasmussen** p. 360.

†Roveacrinidae with key to the genera pp. 360–363, **Rasmussen.**

†*Roveacrinus* with key to the species pp. 363–364, *R. alatus* pp. 364–365 pl. liv figs. 1–4, *bairstowi* p. 366 pl. liii figs. 14–16, *communis* pp. 366–369 pl. liii figs. 1–8, *distinctus* p. 369 pl. liv figs. 8, 9, *euglypheus* p. 370 pl. liii fig. 13, *multisignatus* pp. 370–371 pl. liv figs. 10, 11, *pyramidalis* pp. 371–372 pl. liii figs. 10, 11, ? fig. 12, *rugosus* p. 372 pl. liii fig. 9, *spinulatus* p. 373 pl. liv fig. 7, *spinosus* pp. 373–374 pl. liv figs. 5, 6, *R. pentagonus* Peck, 1943 a synonym of *alatus* p. 364, *R. westfalicus* Sieverts, 1933 a synonym of *communis* p. 367, **Rasmussen.**

†*Saccocoma* pp. 60–68 with *S. filiformis* fig. 1.3, *pectinata* fig. 1.2 and *tenella* fig. 1.1 and fig. 2, **Farinacci & Sirna**; *Saccocoma* with key to the Cretaceous species p. 390, *S.* (*Saccoma*) *cretacea* pp. 390–391 pl. lvii figs. 9, 10, *Saccocoma* n. sp. p. 392 pl. lvii fig. 11, **Rasmussen.**

†Saccocomidae with key to the subfamilies p. 389, **Rasmussen.**

†Saccocominae, **Rasmussen** p. 389.

†*Saccoma* Jaekel, 1918 a synonym of *Saccocoma*, **Rasmussen** p. 390.

†*Scaphocrinus elegans*, **Cavet** pp. 152–153 pl. vi fig. 1.

†*Schedexocrinus* **gen. nov.** pp. 27–29, family Pirasocrinidae for type *S. gibberellus* **sp. nov.** Carboniferous Oklahoma, U.S. pp. 29–36 text-figs. 13i, j, 14a, b, 15, pl. ii figs. 1–3, pl. ix figs. 3–5, pl. xi figs. 3, 4, pl. xvii figs. 4–6, pl. xix fig. 6, **Strimple (10).**

†*Schistocrinus* pp. 99–100 referred to the family Texacrinidae, *S. azygous* pp. 100–101 pl. ix figs. 1, 2, **Strimple (10).**

†*Schlueterometra* **gen. nov.** p. 318 order Comatulida for type *S. voigti* **sp. nov.** Cretaceous Germany pp. 319–320 pl. xliii fig. 4, *S. lettensis* pp. 318–319 pl. xliii fig. 5, **Rasmussen.**

†*Sciadiocrinus* with list of species, **Strimple (10)** p. 26.

†Sclerocrinidae, **Rasmussen** p. 217.

†*Sclerocrinus* with key to the Cretaceous species p. 217, *S. compressus* pp. 217–218 pl. xxxii fig. 5, *strambergensis* pp. 218–219 pl. xxxii fig. 4, **Rasmussen.**

†Scytalocrinidae, **Strimple (10)** p. 131.

†*Semiometra* with key to the Cretaceous species pp. 304–305, *S. annulata* **sp. nov.** Cretaceous Sweden pp. 305–307 pl. xliv figs. 4–7, *bohemica* pp. 307–308 pl. xliv fig. 3, *courvillensis* pp. 308–309 pl. xliv fig. 2, *impressa* pp. 309–311 pl. xlv figs. 1, 2, *lenticularis* pp. 311–312 pl. xlvi figs. 1, 2, *pusilla* pp. 313–314 pl. xlvi figs. 3, 4, *rosacea* pp. 314–315 pl. xliv fig. 1, *rowei* pp. 315–316 pl. xlv fig. 4, *scanica* pp. 316–317 pl. xlv fig. 5, *stellata* pp. 317–318 pl. xlv fig. 3, the last with *S. bohemica* Gislén, 1925 ? synonyms of *impressa* p. 309, *S. pomerania* Gislén, 1924 and *S. minuta* Gislén, 1925 synonyms of *Hertha plana*, **Rasmussen** p. 348.

†*Sitularia triangulariformis* Cumberland, 1826 a synonym of *Marsupites testudinarius* p. 396, **Rasmussen.**

†*Solanocrinites* with keys to the subgenera and Cretaceous species pp. 252–255, *S.* (*Decameros*) *astrei* p. 255 pl. xxxvii fig. 1, *leenhardti* p. 256 pl. xxxvii fig. 2,

ricordeanus p. 257, *ricordeanus ricordeanus* pp. 258–259 pl. xxxvi figs. 1, 2, *ricordeanus almerai* pp. 259–260 pl. xxxvi fig. 3, *ricordeanus estruchi* p. 261 pl. xxxvi fig. 4, *ricordeanus humilis* pp. 261–262 pl. xxxvi fig. 5, *ricordeanus vagnasensis* pp. 262–264 pl. xxxvi figs. 6, 7, *valdensis* pp. 264–265 pl. xxxvii fig. 3, *S.* (? *Pseudoantedon*) *exilis* p. 266 pl. xxxviii fig. 6, *S.* (*Pseudoantedon*) *hiselyi* pp. 266–269 pl. xxxviii figs. 8, 9, *picteti* pp. 269–270 pl. xxxviii fig. 7, *S.* (*Comatulina*) *campichei* pp. 270–272 pl. xxxviii figs. 1–5, *gevreyi* pp. 272–273, pl. xxxvii fig. 5, *S.* (? *Comatulina*) *gillieroni* pp. 273–275 pl. xxxvii fig. 7, *S.* (*Comatulina*) *infracretaceus* pp. 275–277 pl. xxxvii fig. 4, *janenschi* p. 277 pl. xxxvii fig. 6, **Rasmussen.**

†*Solanocrinus* Münster, 1839 a later transcription of *Solanocrinites* p. 252, *S. salvaingi* Astre, 1935 a synonym of *Solanocrinites ricordeanus vagnasensis* p. 262, **Rasmussen.**

†*Spaniocrinus* diagnosed, **Strimple (1)** p. 153.

†*Sphaerometra* Gislén, 1924 a synonym of *Glenotremites* pp. 277, 278, *S. senonica* Gislén, 1925 a synonym of *G. paradoxus* p. 284, **Rasmussen.**

†Stellarocrinidae fam. nov. order Inadunata for genera *Stellarocrinus* and *Heliosocrinus*, **Strimple (10)** pp. 108–109.

†*Stellarocrinus* with list of species pp. 109–110, *S. petalosus* pp. 110–112 pl. xiv figs. 3, 4, pl. xv fig. 4, pl. xvi fig. 2, pl. xix fig. 7, **Strimple (10).**

†*Stenopecrinus* **gen. nov.** pp. 39–40, family Pirasocrinidae for type *Perimestocrinus planus* Strimple pp. 40–41 text-figs. 5a, b, pl. i figs. 4, 5, *S. rugosus* **sp. nov.** Carboniferous Oklahoma, U.S. pp. 42–44 text-figs. 7a, b, pl. ii figs. 4, 5 pl. xiv fig. 7, also *Perimestocrinus hexagonus* Strimple and *moseleyi* Strimple and *Plaxocrinus politus* Moore referred to the genus, p. 40, **Strimple (10).**

†*Stephanocrinus gemmiformis*, **Fay (2)** pp. 256–259 pls. i, ii.

†*Stuartwellercrinus praedecta* **sp. nov.** Carboniferous Oklahoma, U.S., **Strimple (6)** pp. 188–189 pl. i figs. 7–9; *Stuartwellercrinus* diagnosed, **Strimple (1)** p. 153, *S. argentinei* fig. 2E.

†*Styracocrinus* p. 383 with *S. peracutus* pp. 383–385 pl. lvi figs. 1–3, **Rasmussen.**

†*Synbathocrinus* ? *antiquus*, **Strimple & Watkins** pp. 48–49 figs. 1, 2.

†Texacrinidae fam. nov. order Inadunata for genera *Texacrinus*, *Haeretocrinus*, *Marathonocrinus* and *Schistocrinus*, **Strimple (10)** pp. 92–93.

†*Texacrinus* with list of species including *Pachylocrinus uddeni* pp. 93–94, *T. coniformis* **sp. nov.** Carboniferous Oklahoma, U.S. pp. 95–96 pl. i figs. 1–3, pl. xvi fig. 6, **Strimple (10).**

†Thiolliericrinidae with key to the genera, **Rasmussen** pp. 211–212.

†*Thiolliericrinus* p. 212 with *T. arzierensis* pp. 212–213 pl. xxxv fig. 13, **Rasmussen.**

†*Tholocrinus foveatus* made the type of new genus *Zeusocrinus*, **Strimple (10)** p. 21.

†*Thylacocrinus*(?) *ignotus* **sp. nov.** Devonian Victoria, Australia, **Philip** pp. 145–150 text-figs. 1a–c, 2, 3, pl. viii figs. 1, 2, 8.

†*Tiaracrinus æhlerti* subsp. nov. (not named), **Ubaghs** *in* **Erben** and others p. 102.

†*Torynocrinus* Seeley, 1866 a synonym of *Hemicrinus*, **Rasmussen** pp. 233, 234.

†*Triceracrinus moorei* referred to *Perimestocrinus*, **Strimple (10)** p. 24.

†*Trochocrinites*, **Ramsbottom** p. 29.

†Uintacrinida with key to the families and genera, **Rasmussen** p. 395.

†Uintacrinidae, **Rasmussen** p. 400.

†*Uintacrinus* with key to the species p. 401, *U. anglicus* **sp. nov.** Cretaceous England pp. 405–406 pl. lviii figs. 1–7, *socialis* pp. 401–404 pl. lviii figs. 8, 9, pl. lix figs. 1–10, *U. westfalicus* Schlüter, 1878 a synonym of *socialis* p. 401, **Rasmussen**; *U. socialis*, **Moskvin** p. 240 text-fig. 36 pl. i fig. 4.

†*Ulocrinus* with list of species pp. 74–75, *U. elongatus* **sp. nov.** Carboniferous Oklahoma, U.S. pp. 75–77 pl. vi figs. 5, 6, *U. bockschii* (with synonyms *globularis* and *nuciformis*) referred to *Ureocrinus* p. 75, **Strimple (10).**

†*Ureocrinus bockschii*, **Strimple (10)** p. 75; *U. globularis*, **Yakovlev** pp. 418–419 fig.

†*Utharocrinus fabulosus, facilis, granulosus, habitus, oreadensis, quinquacutus, spinosus* and *topekensis* referred to *Perimestocrinus*, **Strimple (10)** p. 24.

†*Volvola* Lhwyd, 1699 equals *Bourgueticrinus*, pp. 165, 166, *V. lagenalis* Valette, 1917 a synonym of *Bourgueticrinus papilliformis* p. 194, **Rasmussen.**

†*Xenocrinus multiramus* **sp. nov.** Ordovician Ayrshire, Scotland, **Ramsbottom** pp. 21–22 pl. vi figs. 1–4, *X.* sp. p. 22.

†*Zeusocrinus* **gen. nov.** family Pirasocrinidae for type *Tholocrinus foveatus* Strimple, p. 21, **Strimple (10).**

†MACHAERIDEA

[Vacant.]

†EOCRINOIDEA

Lingulocystidae fam. nov. for genus *Lingulocystis* Thoral, **Ubaghs (1)** p. 83.

Lingulocystis pp. 83–84 with *L. elongata* pp. 84–103 pls. ix–xi text-figs. 1–9, **Ubaghs (1).**

Rhipidocystis, **Ubaghs (1)** pp. 110–115.

†PARACRINOIDEA

[Vacant.]

†CYSTOIDEA

Cystoids, terminology, **Kesling (3).**

Cystoids, stratigraphic distribution, **Meléndez (1)** pp. 467–482.

Echinosphaerites aurantium aurantium, **Meléndez (2)** pp. 272–273 fig. 1 pl. xxxviii figs. 1–5, *aurantium saenzi* pp. 273–275 pl. xxxviii figs. 6–9.

Eucystis sp. nov. near *E. flava*, **Ubaghs** *in* **Erben & others** p. 102.

Eumorphocystis multiporata, **Branson (2)** pp. 178–179 fig.

Glyptocystites ehlersi **sp. nov.** Ordovician Michigan, U.S. pp. 66–71 text-figs. 3, 4, pl. i figs. 1–15, pl. ii figs. 1–4, pl. iii figs. 1–4, *multiporus* text-figs. 1, 2, **Kesling (3).**

Jaekelocystis hartleyi, **Kesling (2)** pp. 251–257 text-figs. 1–3, pl. i figs. 1–18, pl. ii figs. 1–20, pl. iii figs. 1, 2, pl. iv figs. 1–7.

Lepadocystis moorei, **Kesling & Mintz** pp. 127–139 text-fig. 1 pls. i–viii.

Lepidodiscus ephraemovianus pp. 157–158 text-fig. 6, *squamosus* pp. 155–157 text-fig. 5 pl. ii figs. 1, 2, **Kesling (1).**

Pseudocrinites pp. 257–258 with *P. gordoni* pp. 259–265 text-figs. 4, 5, pl. v figs. 1–17, pl. vi figs. 1–3, pl. vii figs. 1–5, pl. viii figs. 1–8, **Kesling (2).**

Trochocystites bohemicus, **Comte** p. 353.

†CARPOIDEA

Carpoids, nature of the 'stalk,' **Ubaghs (3)** pp. 2738–2740.

Chinianocarpos **gen. nov.**, of sub-order Mitrocystida for type *C. thorali* **sp. nov.**, Ordovician France, **Ubaghs (2)** pp. 2565–2567 fig. 1.

Lingulocystis not a carpoid but an Eocrinoid, **Ubaghs (1).**

Rhipidocystis not a carpoid but provisionally referred to the Eocrinoidea, **Ubaghs (1).**

†EDRIOASTEROIDEA

Agelacrinites sp. A pp. 148–149 pl. iv figs. 1–5, *A.* sp. B pp. 149–150 text-fig. 2 pl. v figs. 1, 2, *A. southworthi* pp. 150–151 pl. v figs. 3, 4, **Kesling (1).**

Anglidiscus fistulosus, **Kesling (1)** pp. 169–170 text-fig. 12.

Carneyella pilea, **Kesling (1)** pp. 166–167 text-fig. 11 pl. xi figs. 3–8.

Cincinnatidiscus carnensis pp. 168–169 pl. viii figs. 3, 4, *stellatus* pp. 167–168 pl. viii fig. 1, **Kesling (1).**

Cystaster granulatus, **Kesling (1)** pp. 165–166 text-fig. 10 pl. ix figs. 1–6.

Discocystis laudoni, **Kesling (1)** p. 155 text-fig. 4 pl. iii figs. 1–3.

Edrioaster bigsbyi pp. 145–146 text-fig. 1 pl. i figs. 1, 2, *levis* pp. 147–148 pl. i figs. 3, 4, **Kesling (1).**

Foerstediscus splendens, **Kesling (1)** pp. 162–163 text-fig. 8 pl. vii figs. 1, 2.

Hemicystites chapmani pp. 161–162 text-fig. 7, *devonicus* pp. 159–160 pl. x figs. 5–7, **Kesling (1).**

Isorophus cincinnatiensis, **Kesling (1)** pp. 158–159 pl. x figs. 1–4 pl. xi figs. 1, 2 pl. xii figs. 1–6.

Streptaster sp. cf. *vorticellatus*, **Kesling (1)** pp. 163–164 text-fig. 9 pl. vi figs. 1, 2.

Thresherodiscus ramosus, **Kesling (1)** pp. 151–155 text-fig. 3 pl. xiii figs. 1, 2.

Timeischytes megapinacotus, **Kesling (1)** pp. 170–171 text-fig. 13 pl. viii fig. 2.

†BLASTOIDEA

Blastoidea diagnosed p. 20, with key to families and genera on pp. 110–112, **Fay (19).**

Agmoblastus **gen. nov.** family Codasteridae for type species *Paracodaster dotti* Moore & Strimple, 1942, **Fay (15)** p. 278 with key to this and the related genera, *A. dotti* pp. 278–280 pl. i.

Ambolostoma diagnosed p. 50 with *A. baileyi* pp. 50–52 text-figs. 69–73 pl. liii figs. 1–6, **Fay (19).**

Astrocrinus diagnosed with *A. benniei* p. 21 pl. xvii figs. 1–3, 7–9, text-figs. 1–3, **Fay (19).**

Auloblastus clinei **sp. nov.** Carboniferous Missouri, **Beaver (2)** pp. 1113–1116 text-fig. 1 pl. cxxxi figs. 1–10.

Blastoidocrinus carchariaedens the probable identity of the type fragment of *Streptelasma expansa* Hall, 1847, **Fay (14)** pp. 247–248.

Brachyschisma diagnosed p. 21 with *B. corrugatum* pp. 21–22 text-figs. 4–7 pl. vi figs. 1–9, **Fay (19).**

Brachyschismatidae fam. nov. **Fay (19)** p. 19 for genus *Brachyschisma*.

Carpenteroblastus diagnosed p. 52 with *C. magnibasis* p. 52 text-figs. 74–76, pl. xxxvii figs. 11–12 pl. xlv figs. 10–12, **Fay (19).**

Codaster diagnosed pp. 22–23 with *C. acutus* p. 23 text-figs. 8, 9 pl. xii figs. 1–7, 9, *C. laeviusculus* made the type species of *Conoschisma* to which *C. jessiae* is doubtfully referred pp. 24–25, *C. pentalobus* made the type species of *Decaschisma* to which *C. pulchellus* is also referred p. 27, **Fay (19).**

Conoschisma **gen. nov.** p. 23 family Phaenoschismatidae for type *Codaster* (*Cryptoschisma* ?) *laeviusculus* Rowley, *C. laeviusculum* pp. 24–25 text-figs. 10, 11 pl. xiv figs. 9, 11, 12, *C.* ? *jessieae* p. 25 pl. xiv figs. 1, 4, 7, **Fay (19).**

Cordyloblastus **gen. nov.** family Pentremitidae for type *Pentremites acutangulus* Schultze pp. 52–53, *C. acutangulus* pp. 53–54 text-figs. 77–79 pl. xxiii figs. 4–8, *clavatus* p. 54 text-figs. 80–81 pl. xx figs. 1–9, *eifelensis* pp. 54–56 text-figs. 82–89 pl. xxi figs. 1–10, *gilbertsoni* pp. 56–57 pl. xxiii figs. 1–3, *lusitanicus* p. 57 text-figs. 90–93, pl. xxii figs. 4–9, *roemeri* p. 57 text-fig. 94, pl. xxii figs. 1–3, **Fay (19).**

Cribroblastus diagnosed with *C. cornutus* p. 60 text-figs. 95–97, pl. xlvi figs. 6–11, **Fay (19).**

Cryptoblastus diagnosed p. 60 with *C. melo* p. 61 text-figs. 98–100 pl. xxxviii figs. 6–9, *shumardi* p. 61 pl. xxxviii fig. 4, *C. roemeri* (Shumard) designated type of *Tanoblastus* nov. to which are also referred *C. bellatulus, concinnulus, missouriensis* and *tenuis*, pp. 101–104, **Fay (19)**, *C. melo*, **Fay (5)** p. 10.

Cryptoschisma diagnosed p. 25 with *C. schultzii* pp. 25–27 text-figs. 12–17 pl. iii figs. 1–9, **Fay (19).**

Decaschisma **gen. nov.** family Phaenoschismatidae for type *Codaster pentalobus* Hall, *D. pentalobus* p. 27 text-figs. 18–20 pl. i figs. 7–10, *pulchellum* pp. 27–29 text-figs. 21, 22, pl. i figs. 1–3, **Fay (19).**

Deltoblastus **gen. nov.** for type *Schizoblastus delta* var. *elongata* Wanner, 1924, **Fay (6)** pp. 36–40, with key translated from Wanner, 1924 ranking his varieties as species of *Deltoblastus*, *D. permicus* pl. i figs. 1–18, *D. batheri* pl. ii figs. 1–13.

Deltoschisma **gen. nov.** p. 29 family Phaenoschismatidae for type *Phaenoschisma archiaci* Etheridge & Carpenter, *D. archiaci* pp. 29–30 text-figs. 23–25 pl. i figs. 4–6, **Fay (19).**

Devonoblastus heitaiensis **sp. nov.** Devonian Kirin, China, **Mu (2)** pp. 131–134 pl. i figs. 1–7; *Devonoblastus* p. 110 with type *D. leda* pp. 110–112 pl. i figs. 1–4, **Fay (8)**; *Devonoblastus* diagnosed p. 61 with *D. leda* p. 62 pl. xxiv figs. 1, 2, 6, *whiteavesi* p. 62 text-figs. 101–112 pl. xxiv figs. 3–5 pl. xxv figs. 1–12, **Fay (19).**

Diploblastus **gen. nov.** family Troosticrinidae for type *Granatocrinus glaber* Meek & Worthen pp. 62–64, *D. glaber* pp. 64–65 text-figs. 113–119 pl. xlviii figs. 1–12, pl. xlix figs. 1–9, **Fay (19).**

Doryblastus **gen. nov.** for type *Mesoblastus melonianus* Schmidt, 1930, **Fay (11)** p. 194, *D. melonianus* pp. 194–196 pl. i.

Elaeacrinus diagnosed p. 65 with *E. verneuili* pp. 65–68 text-figs. 120, 121 pl. xxviii figs. 7–10, *venustus* pp. 68–69 text-figs. 122–125 pl. xxviii figs. 1–6, **Fay (19)**.

Eleutherocrinus diagnosed p. 69 with *E. cassedayi* pp. 69–72 text-figs. 126–137 pl. xxvi figs. 1–8, pl. xxvii figs. 1–11, **Fay (19)**.

Ellipticoblastus **gen. nov.** for type *Orbitremites orbicularis* (Sowerby), 1834, **Fay (4)** p. 317 pl. i fig. 7; *E. orbicularis*, **Fay (5)** pp. 11–13 pl. i figs. 1–5; *Ellipticoblastus* diagnosed p. 72 with *E. orbicularis* pp. 72–73 text-fig. 138 pl. xliii figs. 7–9, **Fay (19)**.

Fissiculata, **Fay (19)** p. 21.

Globoblastus resurrected from the synonymy of *Orbitremites*, p. 293 with type species *G. norwoodi* (Owen & Shumard) pp. 294–298 pls. i–iv, **Fay (3)**; *G. norwoodi*, **Beaver (1)** pp. 1104–1111 pl. cxxix figs. 1–16 pl. cxxx figs. 1–17 text-figs. 1, 2, **Fay (5)** p. 10; *Globoblastus* diagnosed p. 73 with *G. norwoodi* p. 73 text-figs. 139–142 pl. xliv figs. 1–7, **Fay (19)**.

Granatocrinidae fam. nov. **Fay (19)** p. 20 for genus *Granatocrinus* et al.

Granatocrinus diagnosed p. 74 with *G. granulatus* p. 74 pl. xxxix figs. 3–9, *kentuckyensis* p. 74 text-fig. 143, pl. xl figs. 1–6, *G. glaber* designated the type of *Diploblastus* nov. p. 62, **Fay (19)**.

Heteroblastus diagnosed with *H. cumberlandi* p. 75 text-figs. 144–146 pl. xxxix figs. 1, 2, **Fay (19)**.

Hyperoblastus **gen. nov.** p. 30 family Phaenoschismatidae for type *Pentremitidea preciosa* Reimann, *H. preciosus* pp. 30–31 text-figs. 26, 27, pl. vii figs. 1–8, *bassleri* p. 31 pl. iii figs. 3–5, *cummingsi* p. 31 pl. ix figs. 1–3, *dotis* p. 31 text-fig. 28 pl. ix figs. 7, 9–11, *eriensis* pp. 31–32 pl. xi figs. 4–6, *filosus* p. 32 text-figs. 29–33, pl. vii fig. 9, pl. viii figs. 1–6, 10, 11, *filosus angustus* p. 32 text-fig. 35 pl. viii figs. 7–9, pl. ix fig. 8, *goldringae* p. 33 text-fig. 34 pl. x figs. 1–3, 8, *juvenis* p. 33 pl. x figs. 4–6, *latus* p. 33 pl. x figs. 9–11, *obesus* p. 33 pl. xi figs. 1–3, *perovalis* p. 33 pl. x fig. 7, *reimanni* p. 33 pl. xi figs. 7–11, *southworthi* p. 35 pl. ix figs. 4–6, **Fay (19)**.

Lophoblastus diagnosed p. 75 with *L. inopinatus* pp. 75–76 text-figs. 147–150 pl. xlv figs. 1–9, **Fay (19)**.

Mesoblastus diagnosed p. 76 with *M. crenulatus* pp. 76–77 text-figs. 151–157, pl. xlvii figs. 1–13, **Fay (19)**; *M. melonianus* Schmidt, made the type of new genus *Doryblastus*, **Fay (11)** p. 194.

Metablastus diagnosed pp. 77–78 with *M. lineatus* p. 78 text-figs. 158–160 pl. xix figs. 6–8, *bipyramidalis* p. 79 pl. li fig. 6, *nitidulus* pp. 79–80 pl. li figs. 3, 4, 7, *varsouviensis* p. 80 pl. xix fig. 9, pl. l figs. 1–3, pl. lii fig. 6, *wachsmuthi* pp. 80–82 pl. li figs. 1, 2, 5, *wortheni* p. 82 text-figs. 161–163. pl. l figs. 4–9, **Fay (19)**; *M. lineatus*, **Fay (5)** pp. 10–11 pl. iii figs. 3–5.

Monadoblastus **gen. nov.** p. 82 family Granatocrinidae for type *M. granulosus* **sp. nov.** Carboniferous New Mexico, U.S. pp. 82–83 text-figs. 164–167 pl. xxxvii figs. 1–3, 10, **Fay (19)**.

Monoschizoblastus p. 173 with type species *M. rofei* pp. 173–175 pl. i figs. 1–4, **Fay (10)**.

Nucleocrinus diagnosed pp. 83–84 with *N. elegans* p. 84 text-fig. 168 pl. xxix figs. 4–6, *meloniformis* pp. 84–86 text-figs. 169–178, pl. xxix figs. 1–3, 7, 8 pl. xxx figs. 1–9, pl. xxxii fig. 9, *N. obovatus* designated type species of *Placoblastus* nov. p. 92, **Fay (19)**; *N. verneuli*, **Fay (5)** p. 11 pl. ii figs. 1, 2.

Nymphaeoblastus pp. 150–152 with *N. anossofi* pp. 152–153 pl. i figs. 1–5, **Fay (9)**.

Orbitremites floweri **sp. nov.** Carboniferous New Mexico, U.S., **Armstrong** pp. 29–30 figs. 18, 19 pl. iii figs. 16–23; *Orbitremites* Austin & Austin, 1842 with type species *O. derbiensis* (Sowerby) 1825, pp. 315–317 pl. i figs. 1–6, *O. orbicularis* (Sowerby) referred to a new genus *Ellipticoblastus* p. 317, *Orbitremites* Gray, 1840 a nomen nudum, **Fay (4)**; *Orbitremites* diagnosed pp. 86–88 with *O. derbiensis* p. 88 text-figs. 179–182 pl. xliv figs. 8–12, *campanulatus* pp. 88–89 text-figs. 183–185 pl. xliii figs. 4–6, *ellipticus* p. 89 text-figs. 186, 187, pl. xliii figs. 1–3, 10, 11, **Fay (19)**.

Orophocrinus diagnosed p. 35, with *O. stelliformis* pp. 35–36 text-figs. 36–39 pl. xiii figs. 4–9, *campanulatus* p. 36 pl. xiii figs. 1–3, *conicus* p. 36 pl. xv figs. 1, 2, *fusiformis* p. 37 pl. xv figs. 3–8, *gracilis* p. 37 pl. xvi figs. 1–3, *orbignyanus* p. 37 text-fig. 40 pl. xvi figs. 4–6, *puzos* pp. 37–38 text-figs. 41, 41a, pl. xvi figs. 10–12, *sirius* pp. 38–39 pl. xviii figs. 8, 9, **Fay (19)**; *O. stelliformis* pp. 13–15 pl. iii fig. 6, *whitei* p. 15, **Fay (5)**.

Paracodaster dotti made the type of new genus *Agmoblastus*, **Fay (15)** p. 278.

Pentremitella osoleae redescription of holotype, **Fay (12)** p. 229 pls. i, ii.

Pentremitidea Malladae, **Bataller (1)** p. 97 pl. xxxvii fig. 3; *Pentremitidea* diagnosed p. 39, with *P. pailletti* p. 39 text-figs. 42–45, pl. ii figs. 1–11, *P. preciosa* designated type of *Hyperoblastus* nov. p. 30 to which genus are also referred *P. bassleri*, *cummingsi*, *dotis*, *eriensis*, *filosa*, *filosa* var. *angusta*, *goldringae* with subspecies *juvenis*, *latus* and *obesus* raised to specific rank, *perovalis*, *reimanni* and *southworthi* pp. 31–35, **Fay (19)**; *Pentremitidea*, **Hernández-Sampelayo** pl. iii fig. 2; *Pentremitidea alveata*, **Reimann** pp. 155–157 pls. i, ii.

Pentremites conoideus, **Armstrong** pp. 28–29 fig. 17 pl. iii figs. 1–9; *Pentremites* p. 15 with *P. burlingtonensis* pp. 16–18 pl. iv fig. 5, *conoideus* pp. 18–20 pl. iii figs. 1, 2 pl. iv fig. 3, *elongatus* pp. 15–16 pl. iv figs. 2, 6, *platybasis* p. 20 pl. iv fig. 1, *symmetricus* p. 21 pl. iv fig. 4, *P.* spp. including *clavatus*, *godoni*, *pyramidatus*, *pyriformis* and *welleri* pp. 20–22, **Fay (5)**; *P. godoni*, **Fay (18)** pp. 871–872 text-figs. 1–4, neotypes selected and described; *Pentremites* diagnosed p. 89 with *P. godoni* p. 90 text-fig. 188, *burlingtonensis* p. 90 pl. liv figs. 4–5, *pyriformis* p. 90 pl. liv figs. 1–3, *P. caryophyllatus* designated type species of *Phaenoblastus* nov. p. 40, *P. subtruncatus* designated type of *Trionoblastus* nov. p. 45, *P. acutangulus* designated type of *Cordyloblastus* nov. p. 52, *P. ovalis* designated type of *Petaloblastus* nov. p. 90, *P.* (*Granatocrinus* ?) *granulosus* designated type of *Poroblastus* nov. p. 97, *P. roemeri* designated type of *Tanaoblastus* nov. p. 101, **Fay (19)**.

? *Pentremites* sp., **Campbell** p. 432 pl. lvi fig. 2.

Petaloblastus **gen. nov.** p. 90 family Pentremitidae for type *Pentremites ovalis* Goldfuss, *P. ovalis* pp. 90–92 text-figs. 189–192 pl. xxxv figs. 1–8, **Fay (19)**.

Phaenoblastus **gen. nov.** p. 40 family Phaenoschismatidae for type *Pentremites caryophyllatus* de Koninck, *P. caryophyllatus* pp. 40–41 text-figs. 46–48, pl. xiv figs. 2, 3, 5, 6, 8, 10, **Fay (19)**.

Phaenoschisma archiaci designated type of *Deltoschisma* nov., **Fay (19)** p. 29.

Placoblastus **gen. nov.** p. 92 family Nucleocrinidae for type *Elaeacrinus obovatus* Barris, *P. obovatus* pp. 92–94 text-figs. 193–196 pl. xxxi figs. 1–9, *angularis* pp. 94–95 text-figs. 197–199 pl. xxxii fig. 8, pl. xxxiii figs. 1–9, pl. xxxiv figs. 1–9, *eriensis* pp. 96–97 text-fig. 202 pl. xxxii figs. 1–3, *lucina* p. 97 text-figs. 200, 201, pl. xxxii figs. 4–7, 10, **Fay (19)**.

Pleuroschisma diagnosed p. 41, with *P. ontario* pp. 41–43 text-figs. 49, 50 pl. xvii figs. 4–6, **Fay (19)**.

Polydeltoideus **gen. nov.** family Phaenoschismatidae for type *P. enodatus* **sp. nov.** Silurian Oklahoma, **Reimann & Fay** pp. 86–88, *P. enodatus* p. 89 pl. i figs. 1–6.

Poroblastus **gen. nov.** pp. 97–98 family Granatocrinidae for type *Pentremites* (*Granatocrinus* ?) *granulosus* Meek & Worthen, *P. granulosus* p. 98 text-figs. 203–205 pl. xl figs. 7–12, pl. xli figs. 1–12, pl. xlii fig. 8, *chouteauensis* pp. 98–100 text-fig. 206, pl. xlii figs. 1–3, **Fay (19)**.

Pterotoblastus diagnosed with key to species p. 298, type species *P. gracilis* pp. 298–300 pl. i, **Fay (16)**; *Pteroblastus* diagnosed pp. 43–44, with *P. gracilis* p. 44 text-fig. 51 pl. xviii figs. 10, 11, **Fay (19)**.

Ptychoblastus diagnosed with *P. pustulosus* p. 100 pl. xlii figs. 4–7, 9, 10, **Fay (19)**.

Sagittoblastus diagnosed p. 44, with *S. wanneri* pp. 44–45 text-figs. 52–55 pl. xviii figs. 1–7, **Fay (19)**.

Schizoblastidae fam. nov. **Fay (19)** p. 20 for genus *Schizoblastus* et al.

Schizoblastus diagnosed p. 100 with *S. sayi* pp. 100–101 text-figs. 207, 208, pl. xlvi figs. 1, 2, *winslowi* p. 101 pl. xlvi figs. 3–5, **Fay (19)**; *S. sayi*, **Fay (5)** p. 15.

Schizotremites p. 331 with type species *S. kopfi* pp. 331–332 pl. i figs. 1–4, **Fay (17)**.

Spiraculata diagnosed, **Fay (19)** p. 49.

Stephanocrinus p. 236 with type species *S. angulatus* pp. 236–238 pl. i description of lectotype and syntypes, **Fay (13)**.

Streptelasma expansa Hall, 1847 probably a fragment of the blastoid *Blastoidocrinus carchariaedens*, **Fay (14)** pp. 247–248.

Tanoblastus **gen. nov.** p. 101 family Granatocrinidae for type *Pentremites roemeri* Shumard, *T. roemeri* pp. 101–102 text-figs. 209–213 pl. xxxvi figs. 7–12, *bellatulus* p. 102 pl. xxxvii figs. 4–6, *concinnulus* p. 102 text-figs. 214–217, pl. xxxviii figs. 1–3, 5, *haynesi* pp. 102–104 pl. xxxvii figs. 7–9, *missouriensis* p. 104 pl. xxxvi figs. 1–3, *tenuis* p. 104 pl. xxxvi figs. 4–6, **Fay (19)**.

Thaumatoblastus diagnosed with *T. longiramus*, **Fay (19)** p. 45 text-fig. 56, pl. xviii fig. 12.

Tricoelocrinus emended p. 90, with type *T. woodmani* pp. 92–94 pl. i, text-figs. 1–3, **Fay (7)**; *Tricoelocrinus* diagnosed p. 104 with *T. woodmani* pp. 104–105 pl. ii figs. 1, 2, **Fay (19)**.

Trionoblastus **gen. nov.** family Codasteridae for type *Pentremites subtruncatus* Hall p. 45, *T. subtruncatus* pp. 45–47 text-figs. 57, 58, pl. iv figs. 1–3, *alatus* pp. 47–48 text-fig. 59 pl. v figs. 4–6, *canadensis* p. 48 text-figs. 60–63, pl. iv figs. 4–6, pl. v figs. 7–9, *gracilis* pp. 48–49 text-figs. 64–66 pl. v figs. 1–3, *pyramidatus* p. 49 text-figs. 67, 68, pl. iv figs. 7–9, pl. v fig. 8, **Fay (19)**.

Troosticrinus diagnosed p. 105 with *T. reinwardti* pp. 105–106 text-figs. 218–221 pl. xix figs. 1–5, **Fay (19)**.

†OPHIOCYSTIOIDEA

[Vacant.]

THE ZOOLOGICAL RECORD

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